JAGANNATH INTERNATIONAL SCHOOL
JIS
VASUDHAIVA KUTUMBAKAM

JAGANNATH
INTERNATIONAL SCHOOL

NURTURING MINDS • INSPIRING EXCELLENCE • BUILDING FUTURES

Holidays HOMEWORK

SUMMER VACATIONS

CLASS 12

SESSION
2026-2027

EXPLORE
LEARN
GROW
SUCCEED

Plan
Study
Achieve
Succeed

NAME : _____
CLASS : XII _____
SECTION : _____
ROLL NO. : _____

EVERY DAY IS A NEW OPPORTUNITY TO LEARN, GROW AND BE YOUR BEST.

JAGANNATH INTERNATIONAL SCHOOL

Summer Vacation Holiday Homework

Class XII

English:

Make a detailed project on the topics mentioned below according to given guidelines.

1. MARKING SCHEME

- The project consists of 10 MARKS.
- Out of which, 5 MARKS will be allotted for the PROJECT FILE,
- And remaining 5 MARKS for the VIVA based on the topic.
- The viva will be conducted for the project.

2. CONTENT OF THE PROJECT FILE:

- The project file may include the following:
- Cover page, with the title of the project, school details and details of the student (sample will be sent)
- Certificate of Completion under the guidance of the teacher (sample will be sent)
- Objectives of the topic
- List of Content
- Student reflections (what new learning experience/outcome you have achieved after completing the project)
- If possible, include photographs that capture positive learning experience of the students (collages/pics from various online sources)
- List of Resources/Bibliography (Last page of the project file)

INSTRUCTIONS:

- *Do a thorough research on the topic assigned*
- *Prepare a report/essay in about 800-1000 words describing the topic/issue/giving your own opinion/suggestions/measures/viewpoints/its impact on people/your learning experience*
- *You can also state the name of various speakers/people (in the given documentaries/video links), quote them and express their viewpoints*
- *The project should be neat, legible, with an emphasis on quality of content, accuracy of information, creative expression, proper sequencing and should be relevant as per your assigned topic*
- *PROJECT TO BE WRITTEN ON A4 SHEET.*

Given below is a list of some suggestive topics for the project)

1. **Gender issues (Take any one Issue) (Roll no. 1-5**)

- Highlight the plight of oppressed Gender– inequality, injustice, deprivation, agony, pain faced by them (Infographics / Data).

- Women ideology towards gender inequality.
- Movements against Gender inequality.
- Discrimination at different places (home, job, school etc).
- Kamala Das – and Indian writer throughout her literature career has fought for the rights of women – (Aunt Jennifer's Tigers) –mention the themes.
- Kamala Das: The Voice of Indian Woman's Quest For Liberation (It is an autobiographical verse) Highlight.Me too movement.
- How can the change be brought in the mindset of the people.
- Recent Supreme court decision in America- Abort Crucial Rights.

2. Courage is not the absence of fear but triumph over it (Roll no.6-10)

- Introduction
- Origin of the quote
- Courage – a choice to act
- What can one learn from fear
- Benefits of having courage over fear
- How and why to overcome fear
- Fighting against fear is hard but worth it (Examples)
- Mention some of your worst fears and how you managed to overcome them A Questionnaire
- Famous personalities who overcame their fear (Their motivation podcast/speech/stories

3. "When a people are enslaved, as long as they hold fast to their language it is as if they had the key to their prison." (Roll no. 11-15)

- **Importance** of Language
- Meaning of 'Linguistic chauvinism'
- Find examples in history where conquered people had their language taken away from them or had a language imposed of them—What was the result/outcome
- Problems faced by linguistic minority
- How can they keep their language alive
- Linguistic human rights
- Linguistic Chauvinism examples from English literature

4. Hero Worshipping/ Fantasizing/Ego ideal. Are teenagers justified in their act of hero-worship'? (Roll no.16-20)

- Adolescence a period of change/ transitional period/period of unrealism/ time of search for identity
- What is hero worshipping for adolescent?
- Is hero worshipping/fantasising good or bad?
- Meaning of adolescent fantasising
- Hero worship is related with which stage of development
- Are teenagers justified with their hero worship?
- Purpose of ego ideal
- What attracts the child to hero worship
- Hero worshipping is India is too big. Why?
- What are some potential dangers of hero worship?

5. Callousness of human beings towards wildlife (Roll no. 21-25)

- What should be our attitude towards animals?
- Reasons why we need to save wildlife
- Attitude of human – destruction/fragmentation/modification caused by human led activities
- Danger of development
- Instance of game hunting
- Animals who have extinct and the ones on the verge of extinction (reason)
- Data collection /images
- Involvement of affluent people (ANY BOLLYWOOD CELEBRITY ETC)
- Earth's fate and the devastation of the natural world were recently put under the microscope with the release of Sir David Attenborough's Netflix documentary A Life On Our Planet.
- Steps taken /needs to be taken to preserve wildlife.

6. **The need to develop the right attitude towards the specially challenged, the need to incorporate them into the social mainstream and also realize the true beauty that lies within a person and not in one's physical appearance. "Appearances are deceptive" (Roll no.26-30)**

- See the documentary- Forgive us Our Trespasses (Attitude towards disable people)
- Mention dehumanising way, the disabled are treated/ rather ignored in the past even today
- Extracts /real life stories
- Suggest some radical changes
- Importance of Inner beauty over outer beauty
- Relate it with chapter 'On the face of it'

7. **Should criminals in prison be given the opportunity of learning and education? Can education bring any reform? (Roll no. 31-35)**

- Should prisoners be allowed access to education?
- Why should they be educated?
- Do prisoners have the right to education in India?
- CRIME AND ILLITERACY
- Crime reduction through better education
- Benefits of education for criminals in prison
- Survey to show the change

BIOLOGY

- Prepare an investigatory project on the topic given in the class.
- Learn the chapters 1 & 8.
- Solve the given assignment on A-4 size sheets and submit in a folder

PHYSICS

- Solve the shared assignment in your class group ,on A-4 size sheets and submit in a folder.
- Prepare Formula sheets of chapters covered.
- Prepare investigatory projects on the topics as discussed in the class as per CBSE guidelines.
- Complete Practical 1 and 2 in your practical files.

CHEMISTRY

- Revise Chapters -1, 2and 3 and solve the assignments shared in the class group.
- Prepare investigatory projects on the topics as discussed in the class as per CBSE guidelines.
- Complete Practicals discussed in lab in practical file.

Mathematics:

Chapters Covered:

1. Matrices
2. Determinants
3. Linear Programming

Duration: 1 Month

Instructions

- Complete the work in a separate notebook/file/A4 size sheet.
- You can use NCERT textbook for definition but all the questions will be done from any reference books.
- All the assignments should also be done in the same notebook/file/A4 size sheet.
- Show all steps clearly.
- Use graph paper with proper tools (pencil, scale, etc.) wherever required.
- Submit on the first working day after vacation.

Week 1: Matrices (Concept Building)

Day 1–2: Theory Revision

Write definitions with one example each:

- Order of Matrix
- Types of matrices (all types)

Day 3–4: Practice

Solve:

- Find order of matrices (**5 sums**)
- Addition/Subtraction (**5 sums**)

Day 5–6: Matrix Multiplication

Solve **7 sums (3 sums 2x2 & 4 sums 3x3)**

Day 7: Activity

Prepare a **chart/poster** on *Applications of Matrices in Daily Life*.

Week 2: Matrices & Determinants

Day 8–10

- Transpose of matrix (**3 sums**)
- Symmetric & Skew-symmetric matrices (**3 sums**)

Day 11–13: Determinants

- Evaluate **2×2 determinants (5 sums)**
- Evaluate **3×3 determinants (4 sums)**

Day 14: Activity
Prepare a **mind map** on *Important formulas of Determinants*.

Week 3: Determinants & Applications
Day 15–17
Find:
- Minors (**3 sums**)
- Cofactors (**3 sums**)

Day 18–20
Find:
- Adjoint (**3 sums**)
- Inverse of matrix (**5 sums**)

Day 21
Solve system of linear equations using matrix method (**5 sums**)

Week 4: Linear Programming Problem (LPP)
Day 22–24: Theory
Write definitions with examples:
- Objective Function
- Constraints
- Feasible Region
- Optimal Solution

Day 25–27: Graphical Questions
Solve **5 LPP questions** using graph paper.
Day 28: Case Study
Write a **1-page case study** on: *Maximum Profit in a Business Problem*.
Day 29–30:
Prepare **one formula sheet** for all three chapters.

Project Work (Compulsory)
Choose any one:
1. Role of matrices in computer graphics
2. Use of determinants in engineering
3. Application of LPP in business planning

(*2 handwritten pages with diagrams/pictures*)

ECONOMICS:
Write the synopsis of the Topic allotted for CBSE project in the class:

OBJECTIVE- The objectives of the project work are to enable learners to:

- Probe deeper into theoretical concepts learnt in classes XI and XII
- Analyze and evaluate real world economic scenarios using theoretical constructs and argument.
- Demonstrate the learning of economic theory.
- Follow up aspects of economics in which learners have interest
- Develop the communication skills to argue logically.

SCOPE OF THE PROJECT- Learners may work upon the following lines as a suggested flow chart:

- Choose a title/topic
- Collection of the research material/data
- Organization of material/data
- Present material/data
- Analysing the material/data for conclusion
- Draw the relevant conclusion
- Presentation of the Project Work

PRESENTATION-

- It will be an independent, self-directed piece of study
- Students will complete ONE project. Project should be of 3,500-4,000 words (excluding diagrams & graphs). It will be an independent, self-directed piece of study.
- At the end of the stipulated term, each learner will present the research work in the Project File to the External and Internal examiner.
- The questions should be asked from the Research Work/Project File of the learner.
- The Internal Examiner should ensure that the study submitted by the learner is his/her own original work.
- In case of any doubt, authenticity should be checked and verified.
- The project should be handwritten on A4 size sheet.
- Students will prepare economics project as per following headings:
- Acknowledgement
- Index
- Cover page
- Introduction of the concept
- Analysis/explanation and interpretation
- Conclusion
- Credits/list of resources used/bibliography

➢ **SOLVE THE FOLLOWING QUESTIONS IN YOUR NOTEBOOK:**

1. What do you mean by CIRCULAR FLOW OF INCOME? Explain its different phases in details.
2. Differentiate between stock and flow on the basis of meaning, time dimension, nature of concepts and give at least 6 examples.
3. Introduce the following terms: -

Domestic Territory, Normal residents, Factor income and transfer income Final goods and intermediate goods,

Consumption goods and capital goods, Net investment and gross investment, NIT, Subsidies, Factor cost and market price, Tell about NFIA and its components

4. Write the steps of all the methods of calculating National Income and its precautions.
5. Solve 10 Numerical Questions of each value added method, Income method and Expenditure method.
6. What was the two-fold motive behind the systematic deindustrialization affected by the British in pre-independent India?
7. What do you understand about the drain of Indian wealth during the colonial period?
8. Why is the impact of British rule highly debated among historians?
9. Though the public sector is very essential for industries, many public sector undertakings incur huge losses and are a drain on the economy's resources. Discuss the usefulness of public sector undertakings in this light of the fact.
10. Why did India need five year plans? What were the goals of five year plans in our country and how much has been achieved?

POLITICAL SCIENCE

Read all instructions carefully to complete following task:

1. Project Work (CBSE board practical).
2. Revise Book-1 (Ch-1,2,3 &4).
3. Revision Assignments (Objective type and passages) will be shared in class group.
4. Revise Picture based questions.

GUIDELINES FOR PROJECT WORK

- Project Work: 20 Marks
- Political Science as a field of study in senior secondary classes enable students to get an exposure to political activities and processes that they are exposed to in everyday life.
- CBSE has therefore incorporated project work in Political Science to enable students to extend their interest beyond textbooks and provide them with a platform to gather information, value the decisions made to shape the community and visualise future course of action to be taken to ensure healthy democracy.

Objectives of project work

- To enable learners to: probe deeper, initiate action and reflect on knowledge and skills.
- Analyse and evaluate real world scenarios become independent and empowered develop 21st century skills.

Instructions:

- **Kindly go through the instructions carefully**
- The project will be individual. The Project can be made on any of the topics given in the syllabus.
- Students can use primary sources available in city archives, Primary sources can also include newspaper cuttings, photographs, film footage and recorded written/speeches. Secondary sources may also be used after proper authentication.
- At the end of the stipulated term, each learner will present the research work in the Project File to the External and Internal examiner.
- It should be **student's original work in his/her own handwriting**.

The marks will be allocated under the following heads:

Sr.no.	Components	Marks Allotted
1	Introduction/Overview	2
2	Variety Of Contents	3
3	Presentation	3
4	Conclusion	1
5	Bibliography	1
6	Viva-Voce	10
	Total	20

Sr. No.	Roll no.	Topic
1	1201C	India-USA Relationship
2	1202C	Security in the Contemporary World
3	1203C	Challenges to Nation Building
4	1204C	End of Bipolarity
5	1205C	Emergency In India 1975
6	1206C	Contemporary Centres of Power
7	1207C	Era of One-Party Dominance
8	1208C	Challenges to and Restoration of Congress System
9	1209C	Regional Aspirations
10	1210C	India- Pakistan Relationship
11	1211C	Globalisation
12	1212C	International Organisation
13	1213C	Contemporary South Asia
14	1214C	Politics Of Planned Development
15	1215C	India - China Relationship

PSYCHOLOGY

- Solve the given assignment in psychology register.

Assertion–Reasoning Questions

Instructions:

For each question, choose the correct option:

a) Both A and R are true, and R is the correct explanation of A

b) Both A and R are true, but R is not the correct explanation of A

c) A is true, but R is false

d) A is false, but R is true

1. **Assertion (A):** Problem-focused coping helps in reducing stress.
   Reason (R): It involves directly dealing with the source of stress.
2. **Assertion (A):** Avoidance is considered an effective long-term coping strategy.
   Reason (R): It helps individuals ignore stressful situations permanently.
3. **Assertion (A):** Resilient individuals recover quickly from setbacks.
   Reason (R): They have strong emotional and problem-solving skills.

4. **Assertion (A):** Time management reduces academic stress.
   Reason (R): It helps in organizing tasks and avoiding last-minute pressure.

5. **Assertion (A):** Emotion-focused coping always solves the root cause of stress.
   Reason (R): It focuses on managing emotional responses to stress.
6. **Assertion (A):** Peer pressure can sometimes have positive effects.
   Reason (R): It can encourage individuals to adopt healthy behaviors.
7. **Assertion (A):** All forms of social influence are harmful.
   Reason (R): They force individuals to act against their will.
8. **Assertion (A):** Advertisements influence consumer behavior.
   Reason (R): They use persuasion techniques to shape attitudes.
9. **Assertion (A):** Social loafing reduces group efficiency.
   Reason (R): Some members put in less effort when working in groups.
10. **Assertion (A):** A good leader improves group performance.
    Reason (R): Leaders guide, motivate, and coordinate group members.
11. **Assertion (A):** Cooperation leads to better outcomes in group tasks.
    Reason (R): Members work together towards a common goal.
12. **Assertion (A):** Conflict in groups is always harmful.
    Reason (R): It can lead to misunderstandings and reduced productivity.
13. **Assertion (A):** Group discussions improve decision-making.
    Reason (R): They allow sharing of diverse ideas and perspectives.
14. **Assertion (A):** Psychological disorders are maladaptive patterns of behavior.
    Reason (R): They interfere with normal functioning and well-being.
15. **Assertion (A):** All unusual behaviors are considered psychological disorders.
    Reason (R): Psychological disorders involve distress and dysfunction.
16. **Assertion (A):** Anxiety disorders involve excessive fear and worry.
    Reason (R): These emotions interfere with daily activities.
17. **Assertion (A):** Phobias are irrational fears of specific objects or situations.
    Reason (R): Individuals with phobias recognize that their fear is unreasonable.
18. **Assertion (A):** Obsessive-Compulsive Disorder involves unwanted repetitive thoughts.
    Reason (R): Compulsions are behaviors performed to reduce anxiety.
19. **Assertion (A):** Depression is characterized by persistent sadness and loss of interest.
    Reason (R): It affects thinking, behavior, and physical health.
20. **Assertion (A):** Bipolar disorder involves extreme mood swings.
    Reason (R): Individuals experience episodes of mania and depression.
21. **Assertion (A):** Schizophrenia is a disorder of perception and thinking.
    Reason (R): It includes symptoms like hallucinations and delusions.
22. **Assertion (A):** Hallucinations involve false beliefs.
    Reason (R): Delusions involve sensory experiences without external stimuli.
23. **Assertion (A):** Psychological disorders have only biological causes.
    Reason (R): Environmental and psychological factors also influence them.
24. **Assertion (A):** Stress can contribute to psychological disorders.
    Reason (R): High stress affects mental and emotional stability.
25. **Assertion (A):** Classification systems help in diagnosing disorders.
    Reason (R): They provide standard criteria for identifying symptoms.

- Find Case for Case Profile as per discussion in the class as per CBSE guidelines and update to the

subject teacher . Prepare questionnaire related to it and note down observation of the client.(Follow the Sample project shared in class group).

BUSINESS STUDIES:

- **Choose any one topic to make project for Final Board Exams. I .Project One: Elements of Business Environment**

The students will select any one element of the following:

1. Changes witnessed over the last few years on mode of packaging and its economic impact. The teacher may guide the students to identify the following changes: a) The changes in transportation of fruits and vegetables such as cardboard crates being used in place of wooden crates, etc. Reasons for above changes. b) Milk being supplied in glass bottles, later in plastic bags and now in tetra-pack and through vending machines. c) Plastic furniture [doors and stools] gaining preference over wooden furniture. d) The origin of cardboard and the various stages of changes and growth. e) Brown paper bags packing to recycled paper bags to plastic bags and cloth bags. f) Re use of packaging [bottles, jars and tins] to attract customers for their products. g) The concept of pyramid packaging for milk. h) Cost being borne by the consumer/manufacturer. i) Packaging used as means of advertisements.

2. The reasons behind changes in the following: Coca – Cola and Fanta in the seventies to Thums up and Campa Cola in the eighties to Pepsi and Coke in nineties. The teacher may guide the students to the times when India sold Coca Cola and Fanta which were being manufactured in India by the foreign companies. The students may be asked to enquire about a) Reasons of stopping the manufacturing of the above mentioned drinks in India THEN. b) The introduction of Thums up and Campa cola range. c) Re entry of Coke and introduction of Pepsi in the Indian market. d) Factors responsible for the change. e) Other linkages with the above. f) Leading brands and the company having the highest market share. g) Different local brands venturing in the Indian market. h) The rating of the above brands in the market. i) The survival and reasons of failure in competition with the international brands. j) Other observations made by the students

The teacher may develop the following on the above lines

3. Changing role of the women in the past 25 years relating to joint families, nuclear families, women as a bread earner of the family, changes in the requirement trend of mixers, washing machines, micro wave and standard of living.

4. The changes in the pattern of import and export of different Products.

5. The trend in the changing interest rates and their effect on savings.

6. A study on child labour laws, its implementation and consequences.

7. The state of ‘anti plastic campaign,’ the law, its effects and implementation.

8. The laws of mining /setting up of industries, rules and regulations, licences required for running that business.

9. Social factors affecting acceptance and rejection of an identified product. (Dish washer, Atta maker, etc)

10. What has the effect of change in environment on the types of goods and services? The students can take examples like: a) Washing machines, micro waves, mixers and grinder. b) Need for crèche, day care centre for young and old. c) Ready to eat food, eating food outside, and tiffin centres.

11. Change in the man-machine ratio with technological advances resulting in change of cost structure.

12. Effect of changes in technological environment on the behaviour of employee.

II. Project Two: Principles of Management

The students are required to visit any one of the following:

1. A departmental store.

2. An Industrial unit.

3. A fast food outlet.

4. Any other organisation approved by the teacher.
They are required to observe the application of the general Principles of management advocated by Fayol. Fayol's principles 1. Division of work. 2. Unity of command. 3. Unity of direction. 4. Scalar chain 5. Espirit de corps 6. Fair remuneration to all. 7. Order. 8. Equity. 9. Discipline 10. Subordination of individual interest to general interest. 11. Initiative. 12. Centralisation and decentralisation. 13. Stability of tenure.

14. Authority and Responsibility OR They may enquire into the application of scientific management techniques by F.W. Taylor in the unit visited.

Scientific techniques of management

1. Functional foremanship. 2. Standardisation and simplification of work. 3. Method study. 4. Motion Study. 5. Time Study. 6. Fatigue Study 7. Differential piece rate plan.

III. Project Three: Stock Exchange

The purpose of this project is to teach school students the values of investing and utilising the stock market. This project also teaches important lessons about the economy, mathematics and financial responsibility. The basis of this project is to learn about the stock market while investing a specified amount of fake money in certain stocks. Students then study the results and buy and sell as they see

fit. This project will also guide the students and provide them with the supplies necessary to successfully monitor stock market trends and will teach students how to calculate profit and loss on stock. The project work will enable the students to: understand the topics like sources of business finance and capital market understand the concepts used in stock exchange inculcate the habit of watching business channels, reading business journals/newspapers and seeking information from their elders

The students are expected to: a) Develop a brief report on History of Stock Exchanges in India. (your country) b) Prepare a list of at least 25 companies listed on a Stock Exchange. c) To make an imaginary portfolio totalling a sum of Rs. 50,000 equally in any of the 5 companies of their choice listed above over a period of twenty working days. The students may be required to report the prices of the stocks on daily basis and present it diagrammatically on the graph paper. They will understand the weekly holidays and the holidays under the Negotiable Instruments Act. They will also come across with terms like closing prices, opening prices, etc.

During this period of recording students are supposed to distinctively record the daily and starting and closing prices of the week other days under the negotiable instrument act so that they acquire knowledge about closing and opening prices. The students may conclude by identifying the causes in the fluctuations of prices. Normally it would be related to the front page news of the a business journal, for example, Change of seasons. Festivals. Spread of epidemic.

Strikes and accidents Natural and human disasters. Political environment. Lack of faith in the government policies. Impact of changes in government policies for specific industry. International events. Contract and treaties at the international scene. Relations with the neighbouring countries. Crisis in developed countries, etc. The students are expected to find the value of their investments and accordingly rearrange their portfolio.

The project work should cover the following aspects; 1. Graphical presentation of the share prices of different companies on different dates. 2. Change in market value of shares due to change of seasons, festivals, natural and human disasters. 3. Change in market value of shares due to change in political environment/ policies of various countries/crisis in developed countries or any other reasons 4. Identify the top ten companies out of the 25 selected on the basis of their market value of shares. It does not matter if they have made profits or losses.

IV. Project Four: Marketing Management (Chose any one Product)

1. Adhesives 2. Air conditioners 3. Baby diapers 4. Bathing Soap 5. Bathroom cleaner 6. Bike 7. Blanket 8. Body Spray 9. Bread 10. Breakfast cereal 11. Butter 12. Camera 13. Car 14. Cheese spreads 15. Chocolate 16. Coffee 17. Cosmetology product 18. Crayons 19. Crockery 20. Cutlery 21. Cycle 22. DTH 23. Eraser 24. e-wash 25. Fairness cream 26. Fans 27. Fruit candy 28. Furniture 29. Hair Dye 30. Hair Oil 31. Infant dress32. Inverter 33. Jams 34. Jeans 35. Jewellery 36. Kurti 37. Ladies bag 38. Ladies footwear 39. Learning Toys 40. Lipstick 41. Microwave oven 42. Mixers 43. Mobile 44. Moisturizer 45. Music player 46. Nail polish 47. Newspaper 48. Noodles 49. Pen 50. Pen drive 51. Pencil 52. Pickles 53. Razor 54. Ready Soups 55. Refrigerator 56. RO system 57. Roasted snacks 58. Salt 59. Sarees 60. Sauces/ Ketchup 61. Shampoo 62. Shaving cream 63. Shoe polish 64. Shoes 65. Squashes 66. Suitcase/ airbag 67. Sunglasses 68. Tea 69. Tiffin Wallah 70. Toothpaste 71. Wallet 72. Washing detergent 73. Washing machine 74. Washing powder 75. Water bottle 76. Water storage tank77. Wipes

Now the students are required to make a project on the identified product/service keeping in mind the following:

1. Why have they selected this product/service? 2. Find out '5' competitive brands that exist in the market. 3. What permission and licences would be required to make the product? 4. What are your competitors Unique Selling Proposition.[U.S.P.]? 5. Does your product have any range give details? 6. What is the name of your product? 7. Enlist its features. 8. Draw the 'Label' of your product. 9. Draw a logo for your product. 10. Draft a tag line. 11. What is the selling price of your competitor's product? (i) Selling price to consumer (ii) Selling price to retailer (iii) Selling price to wholesaler What is the profit margin in percentage to the Manufacturer. Wholesaler. Retailer. 12. How will your product be packaged? 13. Which channel of distribution are you going to use? Give reasons for selection? 14. Decisions related to warehousing, state reasons.
15. What is going to be your selling price? (i) To consumer (ii) To retailer (iii) To wholesaler 16. List 5 ways of promoting your product. 17.

Any schemes for

(i) The wholesaler

(ii) The retailer

(iii) The consumer 18. What is going to be your 'U.S.P? 19. What means of transport you will use and why? 20. Draft a social message for your label. 21. What cost effective techniques will you follow for your product. 22. What cost effective techniques will you follow for your promotion plan. At this stage the students will realise the importance of the concept of marketing mix and the necessary decision regarding the four P's of marketing. Product Place Price Promotion

On the basis of the work done by the students the project report should include the following:

1. Type of product /service identified and the (consumer/industries) process involve there in. 2. Brand name and the product. 3. Range of the product. 4. Identification mark or logo. 5. Tagline.
6. Labeling and packaging. 7. Price of the product and basis of price fixation. 8. Selected channels of distribution and reasons thereof. 9. Decisions related to transportation and warehousing. State reasons. 10. Promotional techniques used and starting reasons for deciding the particular technique. 11. Grading and standardization. Presentation and Submission of Project Report At the end of the stipulated term, each student will prepare and submit his/her project report

. Following essentials are required to be fulfilled for its preparation and submission.

1. The total length of the project will be of 25 to 30 pages. 2. The project should be handwritten. 3. The project should be presented in a neat folder. 4. The project report should be developed in the following sequence Cover page should include the title of the Project, student information, school and year. List of contents. Acknowledgements and preface (acknowledging the institution, the places visited and the persons who have helped). Introduction. Topic with suitable heading. Planning and activities done during the project, if any. Observations and findings of the visit. Conclusions (summarized suggestions or findings, future scope of study). Photographs (if any). Appendix Teacher's observation. Signatures of the teachers. At the completion of the evaluation of the project, it should be punched in the centre so that the report may not be reused but is available for reference only. The project will be returned after evaluation. The school may keep the best projects.

ASSESSMENT Allocation of Marks = 20 Marks The marks will be allocated under the following heads:

1. Initiative, cooperativeness and participation 2 Mark

2. Creativity in presentation 2 Mark

3 .Content, observation and research work 4Marks

4 Analysis of situations 4 Marks

5 . 5 Viva 8 Marks
Total 20 Marks

- DO ASSIGNMENTS OF CHAPTER-1,2 IN YOUR B.STUDIES REGISTER.(SHARED IN CLASS GROUP)
- Revise Ch-3 and complete notes and Ncert questions in register.

ACCOUNTANCY

General Instructions:

(i) The students are required to attempt assignment Part B in a class register only.

(ii) Show the working notes clearly.

PART A (Project Work)

Project Work: Prepare a project file on **Specific Project i.e. Analysis of Cash Flow Statement And Accounting Ratios**.

Key Instructions to be followed:

Project Layout:

(a) Project details – Specific Project.

(b) Student Information – Name, Class, Section, Roll No., School,
Year 2026- 27

(c) Acknowledgement

(d) Certificate by Teacher

(e) Index sheet

(f) A sheet containing all the following information i.e name of the project, objectives of the project, period of study, analytical tools used source material.

* Students will only collect the informations related the above Project work.

PART B

(Assignment) 1 (Chapter-1)

Fundamental of Partnerships:

1. A, B and C started business on 1st July, 2015. You are required to find out:

i. A drew Rs.8,000 in the beginning of every month for 9 months ending 31st March,2016.

ii. B drew Rs.8,000 at the end of every month for 9 months ending 31st March,2016.

iii. C drew Rs.8,000 every month for 9 months ending 31st March,2016. Calculate interest on drawings@ 10%p.a.

2. Anil,Sunil and Ravinder entered into a partnership on 1st April,2015 to share profits in the ratio of 2:1:1.
It was provided in the deed that Ravinder's share of profits will not be less than Rs.70,000 p.a. The losses for the year ended 31st March, 2016 were Rs.2,00,000 before allowing interest Rs.8,000 on Anil's loan which is due for the current year. You are required to show necessary account for division of loss and also pass the necessary journal entries.

3. Mudit and Uday are partners in a firm sharing profits in the ratio of 2:3.Their capital accounts as on April 1, 2015 showed balances of Rs.70,000 and Rs.60,000 respectively. The drawings of Mudit and Uday during the year
2015-16 were Rs.16,000 and Rs.12,000 respectively. Both the amounts were withdrawn on 1stJanuary, 2016.It was subsequently found that the following items had been omitted while preparing the final accounts for the year ended 31st March,2016:

i. Interest on capital@6% p.a. ii.Interest on drawings @6%p.a.

iii.Mudit was entitled to a commission of Rs.4,000 for the whole year.

Show your workings clearly and pass a rectifying entry in the books of the firm.

4. A, B and C are partners sharing profits in the ratio of 5:4:1. C is given a guarantee that his share of profits in any given year would be Rs.5,000.Deficiency if any, would be borne by A and B equally. The profit for the year ended 31st March, 2016 amounted to Rs.40,000.Pass the necessary journal entries in the books of the firm.

5. A, B and C are partners in a firm sharing profits and losses in the ratio of 4:3:3.Their fixed capitals were Rs.1,00,000; Rs.2,00,000 and 3,00,000 respectively. For the year ended 31st March,2018 interest on capital was credited to them @10% instead of 9%.Pass the necessary adjustment entry.
A and B are partners sharing profits and losses in the ratio of 3:2.They agreed to take C into partnership for 1/3rd share. For this purpose, goodwill is to be valued at two year's purchase of the average profit of last four years which were as follows:
Year ending on 31st March, 2014 Rs.50,000 (Profit) Year ending on 31st March, 2015 Rs.1,20,000 (Profit) Year ending on 31st March, 2016 Rs.1,80,000 (Profit) Year ending on 31st March, 2017 Rs.70,000 (Loss)
On 1st April, 2016 a Motor bike costing 50,000 was purchase and debited to travelling expenses account, on which depreciation is to be charged @20% p.a. Calculate the value of the goodwill.

6. On 1stApril, 2018 an existing firm had assets of Rs.75,000 including cash of Rs.5,000.The partner's capital accounts showed a balance of Rs.60,000 and reserve constituted the rest. If the normal rate of return is 10% and the goodwill of the firm is valued at Rs.24,000 at 4 year's purchase of super profits, find the average profits of the firm.

7. X, Yand Z are partners sharing profits in the ratio of 4:3:2.From 1st April, 2017, they decided to

share profits equally. On that date, their books showed the following items:
Profit and Loss A/c Rs.1,20,000 General Reserve A/c
Rs.45,000
Workmen Compensation Reserve Rs.60,000 Advertisement Suspense
Account (Dr.) Rs.90,000 Record the necessary journal entries.

8. Anubhav and Babita are partners in a firm sharing profits and losses in the ratio of 3:2 respectively. On April 1, 2018, they admitted Deepak as a new partner for 3/13th share in the profits. Deepak contributed the following assets towards his capital and for his share of goodwill: Land Rs. 90,000, machinery Rs.70,000, stock Rs. 60,000 and debtor Rs.40,000. On the date of admission of Deepak, the goodwill of the firm was valued at Rs.5,20,000. Goodwill appearing in the balance sheet was Rs.5,00,000. Record the necessary Journal entries in the books of the firm.
9. A,B and C are partners in a firm sharing profits in the ratio of 5:3:2. D is admitted into the firm for1/4th share in profits, which he gets as 1/8 from A and 1/8 from B. The total capital of the firm is agreed upon as Rs.3,20,000 and D is to bring in cash equivalent to ¼ of this amount as his capital. The capitals of other partners are also to be adjusted in the ratio of their respective shares in profits. The capitals of A, B and C after all adjustments areRs.1,00,000, Rs.75,000 and Rs.60,000 respectively. Calculate the new capitals of A, B and C, and record the necessary journal entries.
10. Pass entries in the firms Journal for the following (i)Unrecorded investments worth Rs.20,000

(ii) Unrecorded liability towards suppliers Rs.5,000.
An item of Rs.1,600 included in Sundry Creditors is not likely to be claimed and hence should be written back.

PART C (Art Integrated Activity)

1. Prepare a Mind Map/Chart /Comic Strip on any one topic of the following topics:

i. Accounting for Partnership firms: Fundamentals.

ii. Goodwill: Nature and Valuation

iii) Change in profit sharing ratio among the existing partners.

iii. Admission of a partner.

You can use Scrap file or A-4 size-coloured sheets and coloured pens.

OR

Prepare an online quiz from the topic 'Accounting for Partnership firms: Fundamentals.'

ASSIGNMENT: 2

Ch-3 Change in Profit sharing ratio of Partners

1. Annual profit shown by a business is Rs.20,000. Normal rate of return 10%. Total assets of the business firm Rs.2,40,000 and liabilities Rs.80,000. Value of Goodwill will be:
    1. Rs.40,000
    2. Rs.30,000
    3. Rs.20,000

4. No Goodwill of Business

2. The partner whose share has increased as a result of change is called
   1. Gaining partner
   2. Sacrificing partner
   3. Sacrificing ratio
   4. Gaining ratio

2. AK, BK and CK are sharing profits in the ratio of 2:1:1. They have decided to share future profits in the ratio of 3:2:1. Find out the gainer partner.
   1. Both AK is the gainer partner and CK is the gainer partner
   2. CK is the gainer partner
   3. BK is the gainer partner
   4. AK is the gainer partner

2. If Assets are increasing but liabilities decreasing; in such a case Revaluation A/c will show
   1. Do not prepare Revaluation A/c
   2. Neither Gain or Loss
   3. Profit
   4. Net loss

2. A, B and C are partners sharing profits in the ratio of capitals (old 5:3:2 and new 2:3:5).Their capital after adjustment in new capital ratio are ` 20,000, ` 30000, ` 50000. Who will bring the amount of actual cash for adjustment?
   2. C
   3. B
   4. A
      - P and Q are sharing profit and losses equally .With effects from current year they decided to share profits in the ratio of 4:3.Calculate individual partner's gain and Sacrifice
   - P gains 1/12th share and Q sacrifices 1/14th share
   - P gains 1/14th share and Q sacrifices 1/14th share
   - P gains 1/10th share and Q sacrifices 1/14th share
   - P gains 1/15th share and Q sacrifices 1/14th share

1. State any two occasions on which a firm can be reconstituted.
2. What is meant by change in Profit-Sharing Ratio?
3. What do you understand by New Profit-Sharing Ratio?
4. Define Investment Fluctuation Reserve.
   5. A and B are sharing profits and losses equally. With effect from 1st April, 2019, they agree to share profits in the ratio of 4 : 3. Calculate the individual partner's gain or sacrifice due to the

1. None of these

X,Y and Z share profits as 5 : 3 : 2. They decide to share their future profits as 4 : 3 : 3 with effect from April 1, 2019,. On this date the following revaluations have taken place:

7.

	Book Value (Rs.)	Revised Value (Rs.)
Investments	22,000	25,000
Plant and Machinery	25,000	20,000
Land and Building	40,000	50,000
Outstanding Expenses	5,600	6,000
Sundry Debtors	60,000	50,000
Trade Creditors	70,000	60,000

8. Pass necessary adjustment entry to be made because of the above changes in the values of assets and liabilities. However old values will continue in the books.

a) X and Y are partners in a firm sharing profits in the ratio of 3:2. They decided to share future profits equally. On the date of change in the profit-sharing ratio, the Profit and Loss Account showed a debit balance of Rs 50,000. Pass the necessary Journal entry for the distribution of the balance in the Profit and Loss Account immediately before the change in the profit-sharing ratio.

b) Anant, Gulab and Khushbu were partners in a firm sharing profits in the ratio of 5 : 3 : 2. From 1st April, 2014, they decided to share the profits equally. For this purpose, the goodwill of the firm was valued at 2,40,000. Pass necessary journal entry for the treatment of goodwill on change in the profit sharing ratio of Anant, Gulab and Khushbu.

c) Ram, Shyam and Hari were in partnership sharing profits in the ratio of 3 : 2

BALANCE SHEET as at 31.3.2013

Liabilities		**(Rs)**	**Assets**	**(Rs)**
Bills Payable		20,000	Cash	40,000
Creditors		20,000	Bills Receivable	5,000
General Reserve		30,000	Debtors	15,000
Capitals			Stock	50,000

Ram	50,000		Furniture	20,000
Shyam	30,000		Machinery	30,000
Hari	25,000	1,05,000	Goodwill	15,000
		1,75,000		1,75,000

On 1.4.2013 partners decided to share profits equally. For this purpose it was further agreed that.

- Goodwill of the firm should be valued at Rs 30,000.
- Furniture and Machinery is to be revalued at Rs 25,000 and Rs 35,000 respectively.
- Value of Stock is to be reduced by Rs 4,000.

You are required to give necessary journal entries to give effect to the above arrangement and prepare Revaluation Account, Partners' Capital Accounts and Balance Sheet of the firm after reconstitution.

Computer Science

1. Practical File:

Do the following SQL Assignment and create a word file and place screenshots of the query and output.

SQL Assignment

Q1 Write SQL commands and outputs on the basis of table GRADUATE.

Table: GRADUATE

S.NO.	NAME	STIPEND	SUBJECT	AVERAGE	DIV
1	KARAN	400	PHYSICS	68	1
2	DIVAKAR	450	COMPUTER SC	68	1
3	DIVYA	300	CHEMISTRY	62	2
4	ARUN	350	PHYSICS	63	1
5	SABINA	500	MATHEMATICS	70	1
6	JOHN	400	CHEMISTRY	55	2
7	ROBERT	250	PHYSICS	64	1
8	RUBINA	450	MATHEMATICS	68	1
9	VIKAS	500	COMPUTER SC	62	1
10.	MOHAN	300	MATHEMATICS	57	2

1. List the names of those students who have obtained DIV 1 sorted by NAME.
2. Display a report, listing NAME, STIPEND, SUBJECT and amount of stipend received in a year assuming that the STIPEND is paid every month.
3. To count the number of students who are either PHYSICS or COMPUTER SC graduates.
4. To insert a new row in the GRADUATE table:
   11, "KAJOL", 300, "COMPUTER SC", 75, 1
5. To display the names of all students whose name starts with "A"
6. To change the subject to "PHYSICS" of all students whose stipend is more than 400

7. Increase the stipend of all students by 500
8. To display a report , showing name, subject and bonus (10% of stipend) for all students
9. To list all students sorted by subject in descending order
10. Give the output of following SQL statement based on table GRADUATE:
    a) Select MIN(AVERAGE) from GRADUATE where SUBJECT= “PHYSICS”;
    b) Select SUM(STIPEND) from GRADUATE where DIV=2;
    c) Select AVG(STIPEND) from GRADUATE where AVERAGE>=65;
    d) Select COUNT(distinct SUBJECT) from GRADUATE;

Q2 In a database,there are two tables given below:

Table: EMPLOYEE

EMPLOYEEID	NAME	SALES	JOBID
E1	SUMIT SINHA	110000	102
E2	VIJAY SINGH TOMAR	130000	101
E3	AJYA RAJPAL	125000	103
E4	MOHIT RAMANI	140000	102
E5	SHAILJA SINGH	145000	103

Table: JOB

JOBID	JOBTITLE	SALARY
101	VICE PRESIDENT	200000
102	ADMINISTRATION ASSISTANT	125000
103	PRESIDENT	80000
104	ADMINISTRATION	70000
105	ACCOUNTANT	65000

a) To display employee ids, names of employees, job ids with corresponding job titles.
b) To display names of employees, sales and corresponding job titles who have achieved sales more than 130000.
c) To display names and corresponding job titles of those employees who have ‘SINGH’(anywhere) in their names.
d) Identify foreign key in the table EMPLOYEE
e) Write SQL command to change the JOBID to 104 of the EMPLOYEE with ID as E4 in the table ‘EMPLOYEE’
f) Find out the number of employees having ‘MANAGER’ as job.
g) List the count of employees grouped by JOBID
h) List the sum of employees salaries grouped by JOBID
i) List the maximum salary of employee grouped by their department number
j) List the JOBTITLES name and the number of their employees.

Q3 Answer the questions (a) and (b) on the basis of the following tables STORE and ITEM.

TABLE STORE

SNo	SName	Area
S01	ABC Computronics	GK II
S02	All Infotech Media	CP

TABLE ITEM

INo	IName	Price	SNo
T01	Mother Board	12000	S01
T02	Hard Disk	5000	S01

S03	Tech Shoppe	Nehru Place	T03	Keyboard	500	S02
S04	Geeks Techno Soft	Nehru Place	T04	Mouse	300	S01 T05
S05	Hitech Tech Store	CP	Mother Board	13000	S02	
			T06	Keyboard	400	S03
			T07	LCD	6000	S04
			T08	LCD	5500	S05
			T09	Mouse	350	S05
			T10	Hard Disk	4500	S06

Write the SQL queries (i) to (iv) and Output of (v)

(i) To display IName and Price of all the items in ascending order of their Price.

(ii) To display SNo and SName of all store location in CP.

(iii) To display Minimum and maximum Price of each IName from the table ITEM.

(iv) To display IName, Price of all items and their respective SName where they are available.

(v) Write the output of the following SQL commands (a) to (e):

a. SELECT DISTINCT IName FROM ITEM WHERE Price >=5000;
b. SELECT Area, COUNT (*) FROM STORE GROUP BY Area;
c. SELECT COUNT (DISTINCT Area) FROM STORE:
d. SELECT IName, Price * 0.05 " DISCOUNT" FROM ITEM WHERE SNo IN ('S02', 'S03');
e. SELECT lNAME, SNAME FROM STORE S, ITEM I WHERE S. SNO = I. SNO AND PRICE>1000;

Q4 Write SQL queries for (a) to (f) and write the outputs for the SQL queries mentioned shown in (g1) to (g4) parts on the basis of tables APPLICANTS and COURSES.

TABLE APPLICANTS

NO	NAME	FEE	GENDER	C_ID	JOINYEAR
1012	Amandeep	30000	M	A01	2012
1102	Avisha	25000	F	A02	2009
1103	Ekant	30000	M	A02	2011
1049	Arun	30000	M	A03	2009
1025	Amber	40000	M	A02	2011
1106	Ela	40000	F	A05	2010
1017	Nikita	35000	F	A03	2012
1108	Arleena	30000	F	A03	2012
2109	Shakti	35000	M	A04	2011
1101	Kirat	25000	M	A01	2012

TABLE COURSES

C_ID	COURSE
A01	FASHION DESIGN
A02	NETWORKING
A03	HOTEL MANAGEMENT
A04	EVENT MANAGEMENT
A05	OFFICE MANAGEMENT

a) To display name, fee, gender, join year about the applicants, who have joined before 2010.
b) To display the names of applicants, who are paying fee more than 30000.
c) To display name of all applicants in ascending order of their join year.
d) To display the year and the total number of applicants joined in each YEAR from the table APPLICANTS.
e) To display the C_ID (i.e. Course ID) and the number of applicants registered in the course from the APPLICANTS table.
f) To display the applicant's name with their respective course's name from the tables APPLICANTS and COURSES.
g) Give the output of following SQL statements:

(g1) SELECT NAME, JOIN YEAR FROM APPLICANTS WHERE GENDER= 'F' AND C_ID= '02';
(g2) SELECT MIN (JOINYEAR) FROM APPLICANTS WHERE Gender= 'M';
(g3) SELE CT AVG (FEE) FROM APPLICANTS WHERE C_ID= 'A01' OR C_ID= 'A05';
(g4) SELECT SUM (FEE), C_ID FROM APPLICATIONS GROUP BY C_ID HAVING COUNT (*) =2;

Q5: Consider the tables given below and answer the questions that follow :

Table : Event

EventId	Event	NumPerformers	CelebrityID
101	Birthday	10	C102
102	PromotionParty	20	C103
103	Engagement	12	C102
104	Wedding	15	C104

Table : Celebrity

CelebrityID	Name	Phone	FeeCharged
C101	FaizKhan	99101956	200000
C102	SanjayKumar	893466448	250000
C103	NeeraKhanKapoor	981166568	300000
C104	ReenaBhatia	65877756	100000

1. Name the Primary keys in both the tables and Foreign key in 'Event' table. Can Num Performers (Number for performers) be set as the Primary key? Give reason.
2. How many rows will be present in the Cartesian join of the above mentioned two tables?
3. To display Event Id, Event name, Celebrity Id and Names of celebrities for only those events that have more than 10 performers.
4. To display Event name, Celebrity Id and Names of celebrities who have ''Khan'' anywhere in their names.
5. To display Event name, Names of celebrities and Fee charged for those celebrities who charge more than 200000.

Project:

- **The aim of the class project is to create something using Python file handling/ Python-SQL connectivity. The aim here is to find a real world problem that is worthwhile to solve.**
- **Students are encouraged to visit local businesses and ask them about the problems that they are facing.**
- **For example,**
- **if a business is finding it hard to create invoices for filing GST claims, then students can do a project that takes the raw data (list of transactions), groups the transactions by category, accounts for the GST tax rates, and creates invoices in the appropriate format.**
- **tudents can use a wide variety of Python libraries to create user friendly applications such as games, software for their school, software for their disabled fellow students, and mobile**

applications.

- **Link of the Sample Project:**

  https://drive.google.com/file/d/1QmYaHhow_nIRBKSGi5IFq8Ins1GwuTZI/view?usp=drive_link

The project must perform the following operations through MySQL and Python connectivity:

1. **Adding new records**
2. **Updating records**
3. **Deletion of records**
4. **Searching records**

Students have to submit the following in Project report:

1. **Front Page**
2. **Acknowledgement**
3. **Certificate**
4. **Table of Content**
5. **Introduction to the project**
6. **Objectives of the project**
7. **Hardware and software requirements**
8. **Flowchart and system design of the project**
9. **Tables and fields of the database**
10. **Screenshots of source code**
11. **Screenshots of OUTPUTS**
12. **Conclusion**
13. **Bibliography**

Informatics Practices

Practical File:

Perform the following practicals in Python IDLE (using Pandas and Matplotlib modules) and create the document with the screenshots of Source code and outputs as discussed in the class.

1. Write python code to create the Series EMP with the following data (using Dictionary):

Code	
E1	Sanya
E2	Krish
E3	Rishav
E4	Deepak

2. Consider the dataframe df given as under:

	Emp_id	Name	Gender	Designation	City	Mobile
0	E01	Ritika	F	Manager	Delhi	987654321
1	E02	Geet	M	Programmer	Mumbai	876543332
2	E03	Rahul	M	IT Officer	Ahmedabad	678998768
3	E04	Rijul	M	Analyst	Lucknow	454567899
4	E05	Anita	F	Programmer	Bengaluru	676789008

Write a program to create the above dataframe and print only the Name, Gender and Designation for all rows.

3. WAP to read details such as item and sales made in a dictionary and create a dataframe and

then store this dataframe in a csv file.

4. Consider the following dataframe: CORONA and answer the questions given below:

ID	State	Cases
100	Delhi	3000
110	Mumbai	4000
120	Chennai	5000
130	Surat	4500

Create the above given dictionary with the given indexes.

- Write code to add a new column “Recovery” using the series method to store the number of patients recovered in every state.
- To add a new column “Deaths” using the insert() method to store the number of deaths in every state.
- To add a new row to store details of another state using loc (assume values).
- To add a new column “Percentage” using the insert() method to store the percentage of recovery in every state(assume values). The column should be added as the fourth column in the dataframe.
- To delete the column “Percentage” using del command.
- To delete the column “Deaths” using pop() method.
- To insert a new row of values using iloc[] at the 1st position.
- To delete Cases and State temporarily from the dataframe.

5. Write code to plot a line chart for section-wise student’s strength (Section on X-axis and Student strength on Y-axis) by adding Label on X and Y axis, and adding a Title and Grids to the chart.

6. Write code to visualize weather report for three consecutive weeks through line plot using ‘Weatherdata.csv’ as shown in the given Fig.

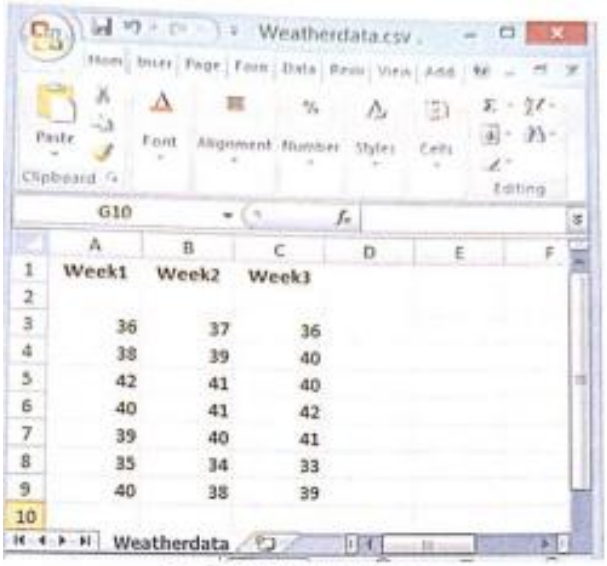

Fig. 2.3: Weatherdata.csv

Plot the changes in temperature for 3 consecutive weeks using a Line Chart. It should display the following features:

- Chart title as “Weather Report”
- X-axis label as “Days”
- Y-axis label as “Temperature in degree Celsius”

Line colours are red for Week1, blue for Week2 and green for Week3.

7. Write code to plot frequency of marks using line chart.

Marks=[50, 50, 50, 65, 65, 75, 75, 80, 80, 90, 90, 90, 90]
Student=[1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13]

8. Write a python code to create a simple Bar chart in orange colour. Use data of your choice for X-axis and Y-axis .
9. Write code to plot a Bar chart having bars of two colours to represent two different lists.
10. Write python code to plot a bar chart for student strength analysis for three consecutive years, comparing and visualizing them by converting as a Pandas Dataframe and plotting using multiple bars.

Project:

The project has to be developed using Pandas and Visualization concepts of python.
Students have to analyse the data on different parameters.
They can take data stored in csv or database file and analyze using Python libraries and generate appropriate charts to visualize.
They can use Python libraries of their choice to develop software for their school or any other social good.
Any resources (data, image etc.) used in the project must be suitably referenced.
Link of Sample Projects: https://drive.google.com/drive/folders/1EDXGCyLtJchv5DYinshBTFulqFzUdWFL?usp=sharing
Students have to submit the following in Project report:

1. **Front Page**
2. **Acknowledgement**
3. **Certificate**
4. **Table of Content**
5. **Introduction to the project**
6. **Analysis Parameters**
7. **Hardware and software requirements**
8. **Flowchart and system design of the project**
9. **Data and CSV file**
10. **Screenshots of source code**
11. **Screenshots of OUTPUTS and visuals**
12. **Conclusion**
13. **Bibliography**