



**LIONS PUBLIC SCHOOL**  
**I BLOCK PHASE- 1 ASHOK VIHAR**  
**DELHI: 110052**  
**(SESSION: 2026-2027)**

**CLASS :XII-B**  
**HOLIDAY HOMEWORK**

**ENGLISH**

**Project File**

A Project File based on research, surveys, or literary analysis is to be prepared by selecting any one of the following topics:

1. **“Fear and Freedom”** — A Comparative Study of *Deep Water* and *Aunt Jennifer’s Tigers*
2. **“Dreams, Illusions and Reality”** — *Going Places* and *The Third Level*
3. **“Human Kindness Can Transform Lives”** — *The Rattrap* and *Indigo*
4. **“Voices Against Oppression”** — *Indigo* and *Memories of Childhood*
5. **“Women and Freedom”** — *Aunt Jennifer’s Tigers* and *Memories of Childhood*
6. **“Power of Silence and Introspection”** — *Keeping Quiet* and *Deep Water*
7. **“Poverty and Lost Childhood”** — *Lost Spring* and *Going Places*
8. **“Nature as a Source of Healing and Hope”** — *A Thing of Beauty* and *Journey to the End of the Earth*
9. **“Pride, Power and Human Weakness”** — *The Tiger King* and *The Rattrap*
10. **“The Search for Peace in a Restless World”** — *Keeping Quiet* and *The Third Level*
11. **“Social Inequality in Literature”** — *Lost Spring* and *A Roadside Stand*
12. **“Education as a Tool for Change”** — *The Last Lesson* and *Memories of Childhood*
13. **“Human Relationships and Emotional Bonds”** — *My Mother at Sixty-Six* and *The Third Level*
14. **“Fantasy vs Reality in Human Life”** — *Going Places* and *The Tiger King*

**Note**

- For the structure and further details, refer to the instructions provided in the class.
- Practice the unseen passages and all the writing skills thoroughly.

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**INFORMATICS PRACTICES**

**Instructions**

1. Revise all the chapters completed in class.
2. Prepare a Project Report on the selected topic (already chosen by students in class).
  - The project can be prepared individually or in a group of a maximum of 2 students.
  - Each student must submit his/her own copy of the report.
  - Take a coloured printout of the complete project report on A4-size sheets (spiral bound).
  - Keep the soft copy of the project ready for later submission in school.
  - All pages of the project report should have page numbers at the bottom (except the cover page).
  - Complete the project during Summer Vacation, i.e., by **30th June 2026**.
  - Last date for project signature: **5th July 2026**.

Check this link for reference of sample project : “CAR SALES ANALYSIS”

<https://www.scribd.com/document/711225975/lp-Project-Class-12-Final-7>

Create the project with CSV file and perform all the operations on it as given below. Perform all the operation one-by-one and save the screenshot of each operation.

1. Import data from CSV File
2. Export data to CSV File
3. Add Row.
4. Remove Row.
5. Update Row.
6. Display Data using Head and Tail Method.
7. Display Individual Row.
8. Display Individual Column.
9. Display Individual Data.
10. Display Complete Data Frame.
11. Change the Index Number of any row.
12. Sort the Data in ascending order or descending order in respect of column.
13. Sort the Data in ascending order or descending order in respect of index number.
14. Count the total number of Rows.
15. Find the Sum, Minimum or Maximum Value (Any one or all if possible).
16. Make a Line Graph or Multiple Line Graph (if required) for data frame.
17. Make a Bar Graph or Multiple Bar Graph (if required) for data frame.

**Project report should include the following :**

1. Cover page : School Name & logo, Project Title, Subject, Session, Student Details ( Rollno, Name, Class ), Subject Teacher
2. Certificate
3. Declaration
4. Acknowledgement
5. Index/Contents
6. Introduction
7. Objectives/Advantages of the Project
8. Software & Hardware Requirements
9. Front-End & Back-End to be used : Python & CSV Files ( specify the versions used )
10. Source Code in Python
11. Output
12. CSV Files
13. Bibliography

3. Complete and submit hard copy of **Practical file** : Q.1-9 (Series), Q.10-17 (DataFrame) & Q.18-22 (Data Visualization) as explained in class. List of programs is already given. **Submission Date:** 5th July 2026

4. Revise all the chapters done in class & complete the following Assignment Questions in fair IP Notebook.

1.	Give the output of the following:  <pre>import pandas as pd S1=pd.Series([10,15,16,12,18,19], index=['A', 'B', 'C', 'D', 'E', 'F']) S2=pd.Series([2,3,2,4,5,3], index=['A', 'B', 'C', 'D', 'F', 'G']) print(S1+S2)</pre>
2.	a) What is a Pandas Series?

	<p>b) What are the key features of a Pandas Series?  c) Can the data type in a Series be mixed?</p>																									
3.	<p>“Series has immutable index”. Explain.</p>																									
4.	<p>What do the keys and values in the dictionary represent in a Series?</p>																									
5.	<p>Consider the following series, ‘Student’ , and answer the questions that follow</p> <p style="text-align: center;"><b>Alice     85</b></p> <p style="text-align: center;"><b>Bob       78</b></p> <p style="text-align: center;"><b>Charlie  92</b></p> <p style="text-align: center;"><b>David    76</b></p> <p style="text-align: center;"><b>Eva      89</b></p> <p style="text-align: center;"><b>dtype: int64</b></p> <p>a) Display the values of this series.  b) Display the indexes.  c) Find how many elements are there in this series.  d) Display the mark of ‘Alice’.  e) Increase the marks of all the students by 5.  f) Display the details, if mark is greater than 80.  g) Display the marks of Alice, Eva.  h) Modify the marks of ‘Alice’. New marks is 95.</p>																									
6.	<p>Write the output of the following code:</p> <pre>import pandas as pd S1=pd.Series([10,15,16,12,18,19], index=['A', 'B', 'C', 'D', 'E', 'F']) print(S1[0:3]) print("_____") print(S1['A':'B']) print("_____") print(S1[0:5:2]) print("_____") print(S1['A':'F':2])</pre>																									
7.	<p>Dataframe: profit</p> <table border="1" data-bbox="243 1711 657 1953"> <thead> <tr> <th></th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>2021</td> <td>10</td> <td>8</td> <td>10</td> <td>6</td> </tr> <tr> <td>2022</td> <td>12</td> <td>9</td> <td>10</td> <td>12</td> </tr> <tr> <td>2023</td> <td>10</td> <td>11</td> <td>11</td> <td>14</td> </tr> <tr> <td>2024</td> <td>14</td> <td>12</td> <td>12</td> <td>16</td> </tr> </tbody> </table> <p>a) Write code to create the following dataframe ‘profit’ regarding the profit made by four companies, A,B,C,D in 2021,2022,2023,2024. Data given is in millions. Use years as the index.  b) Give the output of the following code:  i)print(profit.head(2))  ii)print(profit.tail(2))</p>		A	B	C	D	2021	10	8	10	6	2022	12	9	10	12	2023	10	11	11	14	2024	14	12	12	16
	A	B	C	D																						
2021	10	8	10	6																						
2022	12	9	10	12																						
2023	10	11	11	14																						
2024	14	12	12	16																						

iii)print(profit['A'])

8. Shobhit needs to create a dataframe named 'mydata' from two series named 'Eng' and 'Math'(as given below).Help him to write the code:

Eng		Math	
Aditi	25	Aditi	9
bhavuk	21	bhavuk	29
chirag	23	chirag	15
deepak	24	deepak	14
Gaurav	27	Gaurav	20
dtype:	int64	dtype:	int64

9. Consider the dataframe 'employee'. Write code to :

EID	EName	Department	Salary
1	John	IT	50000
2	Ria	MKT	45000
3	Shobhit	IT	55000
4	Aditya	MKT	60000
5	Rashi	ADMIN	52000

- Remove the column 'Salary'
- Remove the row having index 4
- Save the dataframe to a CSV file, data.csv in D:\Data
- Increase the salary by 5000 for all employees
- Add a new column , 'Grade' having values 'A', 'B', 'A', 'B'
- Add a new row with EID-6, EName 'Arpit', Department 'ADMIN', Salary-30000 & Grade 'A'
- Display the Salary of 'Ria'
- Display the names of all employees.
- Rename the column 'Department' as 'Dept'

10. Write a Python code using matplotlib to:

- Plot a bar chart for sales data ['Q1', 'Q2', 'Q3', 'Q4'] with values [150, 200, 180, 220]
- Set bar colour to cyan.
- Label axes as "Quarter" and "Sales (in ₹)".
- Include a title "Quarterly Sales" and display values on top of each bar.

11. Radhika has to fill in the blanks in the given Python program that generates a line plot as shown below. The given line plot represents the sales in lakhs over five months as given in the table.

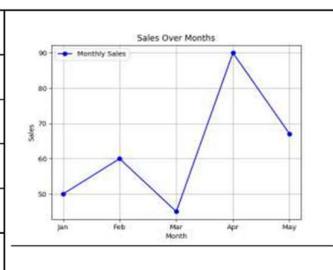
```
import _____ as plt #statement 1
```

```
months = ['Jan', 'Feb', 'Mar', 'Apr', 'May']
```

```
sales = [50, 60, 45, 90, 67]
```

```
plt._____ (months, sales, marker='o', color='blue', linestyle='-', label='Monthly Sales')
```

Month	Sales
Jan	50
Feb	60
Mar	45
Apr	90
May	67



```
#statement 2
```

```
plt.xlabel('_____') #statement 3
```

```
plt.ylabel('Sales')
```

```
plt.title('_____') #statement 4
```

```
plt.grid(True)
```

```
plt.legend()
```

```
plt.show()
```

	<p>Write the missing statements according to given specifications :</p> <ol style="list-style-type: none"> <li>1. to import the required module</li> <li>2. to create a line plot.</li> <li>3. to display the appropriate label for x axis.</li> <li>4. to display the suitable chart title.</li> </ol>
12.	<p>Write a program to generate a histogram with the following values : <math>X=[25,28,35,46,57,68,73]</math></p> <p>Include the following parameters/arguments along with histogram :</p> <ol style="list-style-type: none"> <li>1.It should be a horizontal histogram</li> <li>2.Number of bins should be 20</li> </ol>

## **Business Studies**

### **Project Work**

Prepare any one project from the following topics:

#### **I. Elements of Business Environment**

##### **(a) Study the reasons behind the changes in the following:**

- Coca-Cola and Fanta in the seventies
- Thums Up and Campa Cola in the eighties
- Pepsi and Coke in the nineties

##### **OR (Any One of the Following)**

##### **(b) Changing Role of Women in the Past 25 Years**

Study with reference to:

- Joint families
- Nuclear families
- Women as bread earners of the family
- Changing demand for mixers, washing machines and microwave ovens
- Standard of living

##### **(c) Changes in the Pattern of Import and Export of Different Products**

##### **(d) Trend in Changing Interest Rates and Their Effect on Savings**

##### **(e) Study on Child Labour Laws**

- Implementation
- Consequences

##### **(f) Study on Anti-Plastic Campaigns**

- Laws
- Effects
- Implementation

### **Project Two**

#### **Principles of Management**

### **Project Three**

#### **Marketing Management**

### **Note**

- Revise all chapters completed in class.

# **ACCOUNTANCY**

## **Project Work**

### **Comprehensive Project**

- Specific Problem No. 1
  - Specific Problem No. 2
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### **Instructions for Project**

#### **1. Details of the Project**

Include the following:

- Name of Company
- Accounting Period
- Objective of Study
- Tools Used for Analysis
- Steps Taken for Study Work

#### **2. Case Study / Source Material**

#### **3. Processing**

#### **4. Analysis**

Include:

- Observations
- Results

#### **5. Comprehensive Report**

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### **Practice Work**

Do all illustrations and exercise questions from:

- T.S. Grewal Volume I
- Chapter 1
- Chapter 2
- Chapter 4

**Topic:**

- Partnership Firms
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# **MATHEMATICS**

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Revise the following chapters thoroughly from NCERT book of Mathematics, Practice the solved examples of all the chapters taught.

- i) Inverse Trigonometric functions
- ii) Matrices
- iii) Determinants
- iv) Continuity and Differentiability
- v) Application of derivatives.

2. Draw the graphs of linear programming problem of the exercise given in NCERT book (**Exercise 12.1**) in a separate graph copy.

3. Solve the assignments given in class of the above-mentioned chapters.

4. Complete all the Math activities in the file as explained in class.

# **ECONOMICS**

## **A. Revision Work**

- Revise all chapters completed in class.

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**B. Project Work**

Prepare a project on the following topics according to roll numbers:

<b>Roll Number</b>	<b>Topic</b>
1 – 5	Government Budget
6 – 10	Balance of Payment
11 – 15	Foreign Exchange Rate
16 – 20	Role of RBI
21 – 25	Environmental Crisis
26 – 30	Inflation and Deflation
31 – 35	Economic Reforms Since Independence
36 – 42	Rural Development