



**JAGANNATH INTERNATIONAL SCHOOL**

**SUMMER**

**HOLIDAY HOMEWORK**

**2024-2025**

**CLASS -XII**



**SESSION 2024-25**  
**HOLIDAY HOMEWORK**  
**CLASS XII**

**ENGLISH**

- Make a detailed project on the topics mentioned below with student names according to CBSE guidelines.
- Students can use any medium to write the project (typed or handwritten).
- Follow the following pattern page-wise.
  1. Cover page
  2. Acknowledgment
  3. Certificate
  4. Index
  5. Objective
  6. Detailed information / Analysis about the topic (include colourful pictures also)
  7. Learnings/ Reflection
  8. Bibliography
- Revise the syllabus done so far.

S.NO	NAME	TOPIC
1	Bhavya	Education
2	Chanda	Digital India
3	Chayan	Online Social Networking
4	Devansh	Child Labour
5	Janvi	Poverty
6	Kanish	Technology
7	Kartik	Dependence of technology
8	Keshav	Environment
9	Mehak	Make in India
10	Niharika	Cashless India
11	Nishtha	Corruption in India
12	Palak	Ethics and Values
13	Prachi	Censorship
14	Rudraksh	Human Rights
15	Sai Jyoti	Media and Society
16	Satvik	Video Game
17	Shikha	Online Learning
18	Shreya	Life of Buddha and his teachings
19	Srishti	New Education Policy 2020
20	Surbhi	Indian Tourism
21	Tanishka	Global Warming
22	Tiya	Climate Change
23	Vansh	Sustainable Development

24	Ayush	Preservation of wildlife
25	Abhishek	Mental health
26	Bhumi	Women's aspirations
27	Charvi	India's changing face
28	Cheshtha	Ecotechnology and the environment
29	Dhanveen	Current developments in India's educational system
30	Gaurvi	Dreams
31	Kartik	Life after death
32	Krishankant	Music has the power to heal
33	Kuljot	Leadership cannot be taught
34	Lakshay	Man is the architect of his own fate
35	Laveena	Festivals of india
36	Lavisha	Culture
37	Lovepreet	Adventure
38	Rhythm	Mystery
39	Rishi	Entertainment
40	Tanmay	Music
41	Vedish	Humour and wisdom
42	Aryaman	Future of electrical vehicles in India
43	Janvi	Mechanisms adopted to combat terrorism
44	Masuma	Population explosion
45	Mishank	Artificial intelligence
46	Pearl	Old buildings must be preserved
47	Pihu	The Bermuda triangle is fact, not fiction
48	Raghav	Racism will never die out
49	Reshu	No one is too old to go study
50	Saumya	Democracy
51	Saygun	Depression is not a disease
52	Shoyab	Smartphones VS Smartpeople
53	Vanshika	Right to education

## MATHEMATICS

1. Concept Review and Assignment- Revise chapters 1 to 4 using your NCERT textbook and class notes. Complete the assignment related questions in the assignment booklet. You must submit Mathematics register by July 1, 2024.
2. Self- Assessment Tests- Attempt the Self-Assessment Tests for chapters 1-4 in the assignment booklet, recording your work in your registers. Check your answers using the solutions provided.
3. Math Lab Activity- Complete 5 activities in your Mathematics lab manual file, as discussed in class. The activities are available in assignment booklet.

## PHYSICAL EDUCATION

1. Revise 1<sup>st</sup> and 2<sup>nd</sup> chapter.
2. Prepare assignment of chapter-3 (Yoga).
3. Write about the causes of diabetes and asanas for its prevention.
4. Write about the causes of obesity and asanas for its prevention.

## PSYCHOLOGY

1. Complete the given assignment in your psychology register.
2. Select one topic and prepare case profile (consult sample project and Psychology book Pg. No. 199)
3. Prepare Model as per discussion in class (Roll no. 1 to 5)

## POLITICAL SCIENCE

All details are given below for the same:

1. Project work (as per CBSE guidelines)
2. Revision work (Ch-1,2,3,4 and 5)
3. Assignments (objective type, very short answer & passages)
4. Cartoon based questions (book-1)

### **Guidelines for Project Work**

The expectations of the project work are that-

1. Learners are complete only one project in each academic session
2. Project should be hand written
3. It will be an independent, self-directed piece of study. Scope of the project.

**Learners will work upon the following lines as suggested here;**

1. Choose a tittle/topic
2. Certificate
3. Acknowledgement
4. Index
5. Introduction
6. Causes, Main event, Origin, history
7. Research Questions
8. Selection of Respondents
9. Methodology
10. Questionnaire
11. Report Writing/presentation of data
12. Draw the relevant Conclusion
13. Limitations
14. Bibliography

**Suggestive List of Projects** (Choose any one).

Book -1

- 1 NAM-1961 to present times.
- 2 Division of Germany with Special focus on the construction and dismantling of the Berlin Wall
- 3 Disintegration of USSR with special focus on Gorbachev.
- 4 Cover the negative as well as positive aspects of relationship between India and the following countries. Focus on any one of the following (current updates should be highlighted).
- 5 Relationship between India and Russia
- 6 Relationship between India and China
- 7 Relationship between India and Pakistan
- 8 Relationship between India and Bangladesh
- 9 ASEAN
- 10 European Union and BREXIT

## 11 India's Nuclear Policy

1. United Nations with focus on India's candidature in Security Council. (Please collect newspaper clippings for the same)

### Book -2

1. Comparison between NITI AAYOG and Planning Commission and their contribution in India's Development
2. Partition of India-Theory behind it and its legacy
3. Emergency –A blot on Indian Democracy
4. Election 2019-Rise of BJP and Downfall of Congress (1989-2019)
5. NDA III and NDA IV–Social and Economic welfare programmes.

### Note:

- . Student will choose any one topic and use interleaf A4 size sheet for project work. (read instructions carefully)
- . Assignments you all will get weekly; it can be in the form of google forms or pdf file.
- . All cartoons analysis needs to do in your political science notebook.
- . Every child will revise all work done in class.

## ECONOMICS

- Write the synopsis of the discussed CBSE projects in the class e.g.

<u>TOPIC : XII</u>	
• Micro and Small Scale Industries	• Food Supply Channel in India
• Contemporary Employment situation in India	• Disinvestment policy of the government
• Goods and Services Tax Act and its Impact on GDP	• Health Expenditure (of any state)
• Human Development Index	• Inclusive Growth Strategy
• Self-help group	• Trends in Credit availability in India
• Monetary Policy Committee and its functions	• Role of RBI in Control of Credit
• Government Budget & its Components	• Trends in budgetary condition of India
• Exchange Rate determination – Methods and Techniques	• Currency War – reasons and repercussions
• Livestock – Backbone of Rural India	• Alternate fuel – types and importance
• Sarva Shiksha Abhiyan – Cost Ratio Benefits	• Golden Quadrilateral- Cost ratio benefit
• Minimum Support Prices	• Relation between Stock Price Index and Economic Health of a Nation
• Waste Management in India – Need of the hour	• Minimum Wage Rate – Approach and Application
• Digital India- Step towards the future	• Rain Water Harvesting – A solution to water crisis
• Vertical Farming – An alternate way	• Silk Route- Revival of the past
• Make in India – The way ahead	• Bumper Production- Boon or Bane for the farmer
• Rise of Concrete Jungle- Trend Analysis	• Organic Farming – Back to the Nature

• Aatmanirbhar Bharat	• e-Rupee (e- ₹)
• Sri Lanka's Economic Crisis	• Sustainable Development Goals (SDG's)
• Environmental Crisis	• Comparative Study of Economies (Maximum three economies)
• New Education Policy (NEP) 2020: A Promise for a New Education System	• G-20: Inclusive and Action Oriented
• Amrit Kaal: Empowered and Inclusive Economy	• Cashless Economy
• Any other newspaper article and its evaluation on basis of economic principles	• Any other topic

**OBJECTIVE-** The objectives of the project work is 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 arguments
- 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. Write about types of circular flow? As real flow and money flow.
4. 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

5. Define various aggregates of national income?
6. Differentiate between National income and Domestic income?
7. Write the steps of all the methods of calculating National Income and its precautions.
8. Solve 10 Numerical Questions of each value added method, Income method and Expenditure method.
9. Discuss the functions of Central Bank in detail.
10. Outline the process of money creation by the commercial banking system.

## **ACCOUNTANCY**

- **Revise all chapters covered in class and solve practice questions in your notebook:**
  - Ch 1: Accounting for Partnership firms-Fundamentals**
  - Ch 2: Goodwill: Nature and Valuation**
  - Ch 3: Change in Profit sharing Ratio among existing partners**
  - Ch 4: Admission of a Partner**
- **Research on a Company and take print out of Financial Statement for financial year(2023-24) and paste in your notebook.**

## BUSINESS STUDIES

- Solve the case studies of Ch 1 to 3 from book of Case studies (Author- Subhash Dey) shared with you in class group:

**Chapter 1: Nature and significance of management**

**Chapter 2: Principles of Management**

**Chapter 3: Business Environment**

Solve all case studies in your fair notebook

- Prepare model on following topic:

**Marketing Mix (Roll No 1-5)**

**E-Commerce (Roll No 6-10)**

**Private Bank vs Public Bank (Roll No 11-15)**

**Retail Business (Roll No 16 to 19)**

**Channel of Communication (Roll No 20-23)**

## PHYSICS

- Solve the given assignment in your register.
- Complete Practical files.
- Prepare a working model on the topics assigned in the groups as discussed in the class. Link has been shared for reference.

S NO.	TOPICS	LINK
1	Carbon Purification in Industries	<a href="#">Carbon Purification for industries   Save environment Project   science Project   part 2 (youtube.com)</a>
2	Floating Chair/ Antigravity Structures	<a href="#">Insane Floating Tensegrity Chair (youtube.com)</a>
3	Water Level Indicator	<a href="#">Water Level indicator project 12th #science Project step by step (youtube.com)</a>
4	Watering using Solar Power	<a href="#">Watering using Solar Power   easy school project for competition ( Working Model) (youtube.com)</a>
5	Road Safety Model	<a href="#">(3) [PART-2]Award Winning Accident Prevention Road Safety Model With Speed Breaker Power Generator - YouTube</a>



## CHEMISTRY

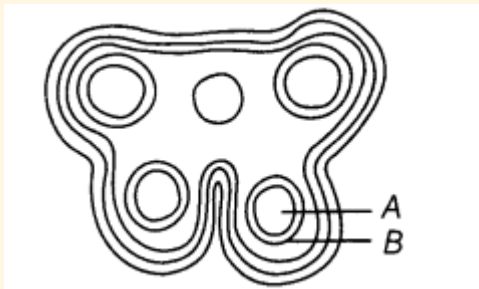
- Prepare Investigatory Project on the desired topic as per CBSE guidelines.
- Solve the given assignment in your register
1. State Henry's law correlating the pressure of a gas and its solubility in a solvent and mention two applications of the law.
  2. Calculate the temperature at which a solution containing 54 g of glucose, ( $C_6H_{12}O_6$ ) in 250 g of water will freeze. ( $K_f$  for water =  $1.86\text{ K mol kg}^{-1}$ )
  3. State Raoult's law for solutions of volatile liquids. Taking suitable examples explain the meaning of positive and negative deviations from Raoult's law. OR Define the term osmotic pressure. Describe how the molecular mass of a substance can be determined by a method based on measurement of osmotic pressure?
  4. Define osmotic pressure. How is it that measurement of osmotic pressures is more widely used for determining molar masses of macromolecules than the rise in boiling point or fall in freezing point of their solutions?
  5. Derive an equation to express that relative lowering of vapour pressure for a solution is equal to the mole fraction of the solute in it when the solvent alone is volatile.
  6. Differentiate between molality and molarity of a solution. What is the effect of change in temperature of a solution on its molality and molarity?
  7. Define the following terms: (i) Mole fraction (ii) Van't Hoff factor
  8. Calculate the freezing point depression for 0.0711 m aqueous solution of sodium sulphate ( $Na_2SO_4$ ), if it is completely ionised in solution. If this solution actually freezes at  $-0.320\text{ }^\circ\text{C}$ , what is the value of Van't Hoff factor for it at the freezing point? ( $K_f$  for water is  $1.86\text{ }^\circ\text{C mol}^{-1}$ )
  - 8 What is 'reverse osmosis'?
  9. Non-ideal solutions exhibit either positive or negative deviations from Raoult's law. What are these deviations and why are they caused? Explain with one example for each type.
  10. A solution prepared by dissolving 1.25 g of oil of winter green (methyl salicylate) in 99.0 g of benzene has a boiling point of  $80.31\text{ }^\circ\text{C}$ . Determine the molar mass of this compound. (B.P. of pure Benzene =  $80.10\text{ }^\circ\text{C}$  and  $K_b$  for benzene =  $2.53\text{ }^\circ\text{C kg mol}^{-1}$ )
  11. A solution of glycerol ( $C_3H_8O_3$ ; molar mass =  $92\text{ g mol}^{-1}$ ) in water was prepared by dissolving some glycerol in 500 g of water. This solution has a boiling point of  $100.42\text{ }^\circ\text{C}$ . What mass of glycerol was dissolved to make this solution?  $K_b$  for water =  $0.512\text{ K kg mol}^{-1}$ .
  12. Define the terms, 'osmosis' and 'osmotic pressure'. What is the advantage of using osmotic pressure as compared to other colligative properties for the determination of molar masses of solutes in solutions.
  - 13 What mass of NaCl (molar mass =  $58.5\text{ g mol}^{-1}$ ) must be dissolved in 65 g of water to lower the freezing point by  $7.5\text{ }^\circ\text{C}$ ? The freezing point depression constant,  $K_f$ , for water is  $1.86\text{ K kg mol}^{-1}$ . Assume van't Hoff factor for NaCl is 1.87.
  - 14 What mass of ethylene glycol (molar mass =  $62.0\text{ g mol}^{-1}$ ) must be added to 5.50 kg of water to lower the freezing point of water from  $0\text{ }^\circ\text{C}$  to  $-10.0\text{ }^\circ\text{C}$ ? ( $K_f$  for water =  $1.86\text{ K kg mol}^{-1}$ )
  - 15 15 g of an unknown molecular substance was dissolved in 450 g of water. The resulting solution freezes at  $-0.34\text{ }^\circ\text{C}$ . What is the molar mass of the substance? ( $K_f$  for water =  $1.86\text{ K kg mol}^{-1}$ ).

## BIOLOGY

- Prepare a project on a suitable topic from your book.(as discussed)
- Complete the practical file.
- Learn the chapters 1, 2 and 3.
- **Do all these questions in biology register.**

### **CHAPTER-2 (REPRODUCTION IN FLOWERING PLANTS)**

1. Banana is a true fruit, but is also a parthenocarpic fruit. Give a reason?
2. Why do corn cobs have long tassels?
3. What is meant by monosporic development of female gametophyte?
4. Give the technical term for the type of pollination which ensure genetic recombination?
5. Name the tallest flower?
6. Name the seeds that have retained their viability for thousands of years?
7. How is it possible in Oxalis and Viola plants to produce assured seed sets even in the absence of pollinators?
8. A bilobed dithecous anther has 100 microspore mother cells per microsporangium. How many male gametophytes can this anther produced?
9. In the T.S. of a mature anther given, identify "A" and "B" and mention their functions.



### **CHAPTER-3 (HUMAN REPRODUCTION)**

1. Name the cells that nourish the germ cells in the testes? Where are these cells located in the testes?
2. Define spermiogenesis. Where does it occur?
3. Mention the difference between spermiogenesis and spermiation?
4. At what stage is meiosis I suspended in a primary oocyte?
5. Diagrammatically show the levels of LH and FSH during menstrual cycle.
6. Explain the various phases of menstrual cycle with reference to changes in ovary and uterus and hormonal cycle.

## INFORMATICS PRACTICES

### Instructions:

- Apart from Holiday homework complete all work that was taught in offline and online class in your class notebook.
- Cover your class notebook
- First complete Class work then write heading Holiday Homework on one page start your Holiday HW.
- Apart from the questions given here some worksheet will also be sent. Do that also in Holiday HW.
- **Revise chapter 1 (Data Handling using Pandas) and chapter 3 Review of Database Concepts & SQL. Just after PT-1 your class test will be conducted.**
- Execute all program in your system for **practical file**(will be sent in group) and save it in a **folder XII-A-YourName**.

1.	Create a <code>pandas.Series</code> from a list of integers <code>[10, 20, 30, 40, 50]</code> and display it.
2.	Create a <code>pandas.Series</code> from a dictionary <code>{'a': 1, 'b': 2, 'c': 3, 'd': 4}</code> and display it.
3.	Given a <code>pandas.Series s = pd.Series([5, 10, 15, 20, 25])</code> , access the element at index 2 and display it.
4.	Create two <code>pandas.Series</code> , <code>s1 = pd.Series([1, 2, 3, 4, 5])</code> and <code>s2 = pd.Series([10, 20, 30, 40, 50])</code> . Add them together and display the result.
5.	Given a <code>pandas.Series s = pd.Series([5, 15, 25, 35, 45])</code> , filter and display the elements greater than 20.
6.	Create a <code>pandas.Series</code> with the values <code>[1, 2, None, 4, None, 6]</code> . Replace the missing values with the mean of the series and display it.
7.	Create a <code>pandas.Series</code> from the list <code>[10, 20, 30, 40, 50]</code> with custom index labels <code>['a', 'b', 'c', 'd', 'e']</code> and display it.
8.	Create a <code>pandas.DataFrame</code> from the following dictionary and display it: <pre>data = {     'Name': ['Alice', 'Bob', 'Charlie', 'David', 'Eve'],     'Age': [24, 27, 22, 32, 29],     'City': ['New York', 'Los Angeles', 'Chicago', 'Houston', 'Phoenix'] }</pre>
9.	Given the <code>DataFrame df</code> from the previous question, display only the 'Name' and 'City' columns.
10.	Using the same <code>DataFrame df</code> , display the first three rows.
11.	Add a new column 'Salary' with the following values <code>[50000, 60000, 55000, 70000, 65000]</code> to the <code>DataFrame df</code> and display it.



12.	Filter the <b>DataFrame df</b> to display only the rows where the 'Age' is greater than 25.
13.	Delete the 'City' column from the <b>DataFrame df</b> and display the result.
14.	Write a Python program to read a CSV file named <b>students.csv</b> into a <b>pandas.DataFrame</b> and display the first five rows. Assume <b>students.csv</b> contains the following data: <pre>Name, Age, Grade Alice, 24, A Bob, 27, B Charlie, 22, C David, 32, B Eve, 29, A</pre>
15.	Create a <b>pandas.DataFrame</b> with the following data and write it to a CSV file named <b>new_students.csv</b> <pre>data = {     'Name': ['John', 'Emily', 'Michael', 'Sarah', 'Jessica'],     'Age': [21, 23, 20, 22, 25],     'Grade': ['B', 'A', 'C', 'B', 'A'] }</pre>
16.	Read the <b>students.csv</b> file and display only the 'Name' and 'Grade' columns.
17.	Read the <b>students.csv</b> file and filter the rows where the 'Age' is greater than 25. Display the filtered DataFrame.
18.	Write SQL queries for a) Create a table named <b>Students</b> with the following columns: <ul style="list-style-type: none"><li>• <b>StudentID</b> (INTEGER, Primary Key)</li><li>• <b>Name</b> (TEXT)</li><li>• <b>Age</b> (INTEGER)</li><li>• <b>Grade</b> (TEXT)</li></ul> b) Insert the following data into the <b>Students</b> table: <ul style="list-style-type: none"><li>• StudentID: 1, Name: 'Alice', Age: 17, Grade: 'A'</li><li>• StudentID: 2, Name: 'Bob', Age: 18, Grade: 'B'</li><li>• StudentID: 3, Name: 'Charlie', Age: 16, Grade: 'B'</li></ul> c) Update the grade of the student with <b>StudentID</b> 2 to 'A'. d) Delete the student with <b>StudentID</b> 3 from the <b>Students</b> table.

e)	Retrieve all data from the <b>Students</b> table.
f)	Retrieve only the <b>Name</b> and <b>Grade</b> columns from the <b>Students</b> table.
g)	Calculate the average age of all students.
h)	Calculate the count of students in each grade.

## COMPUTER SCIENCE

### Instructions:

- Apart from Holiday homework complete all work that was taught in offline and online class in your class notebook.
- Cover your class notebook
- First complete Class work then write heading Holiday Homework on one page start your Holiday HW.
- Apart from the questions given here some worksheet will also be sent. Do that also in Holiday HW.
- **Revise Chapter 1 Review of Python basics, Chapter 7 Relational Database and SQL, Chapter 8 Interface Python with SQL and solve all solved questions in book . Just after PT-1 your class test will be conducted.**
- **Make your project by using Interface Python with MySQL and send me softcopy.**
- Execute all program in your system for **practical file** (will be sent in group) and save it in a **folder XII-B-YourName.**

1.	<p>Create a dictionary named <b>student</b> with the following key-value pairs:</p> <ul style="list-style-type: none"> <li>• 'name': 'Alice'</li> <li>• 'age': 18</li> <li>• 'grade': 'A'</li> </ul> <p>Write code to print keys and values, to delete keys and values, to change value of age as 20</p>		
2.	Write a program to create a list L1=[10,20,30,40,50] and use all the functions of list.		
3.	Write a program to create a string STR= "Hello World" and perform all operation on string by using string function.		
4.	<b>Explain the basic steps to connect Python to a MySQL database.</b>		
5.	<b>Explain the process of inserting data into a MySQL database table using Python</b>		
6.	<b>Explain the concept of parameterized queries and why they are important in database interactions with Python</b>		
7.	<p>Write SQL queries for</p> <table border="1" style="width: 100%;"> <tr> <td style="text-align: center;">a)</td> <td> <p>Create a table named <b>Students</b> with the following columns:</p> <ul style="list-style-type: none"> <li>• <b>StudentID</b> (INTEGER, Primary Key)</li> </ul> </td> </tr> </table>	a)	<p>Create a table named <b>Students</b> with the following columns:</p> <ul style="list-style-type: none"> <li>• <b>StudentID</b> (INTEGER, Primary Key)</li> </ul>
a)	<p>Create a table named <b>Students</b> with the following columns:</p> <ul style="list-style-type: none"> <li>• <b>StudentID</b> (INTEGER, Primary Key)</li> </ul>		



	<ul style="list-style-type: none"> <li>• <b>Name</b> (TEXT)</li> <li>• <b>Age</b> (INTEGER)</li> <li>• <b>Grade</b> (TEXT)</li> </ul>
b)	<p>Insert the following data into the <b>Students</b> table:</p> <ul style="list-style-type: none"> <li>• StudentID: 1, Name: 'Alice', Age: 17, Grade: 'A'</li> <li>• StudentID: 2, Name: 'Bob', Age: 18, Grade: 'B'</li> <li>• StudentID: 3, Name: 'Charlie', Age: 16, Grade: 'B'</li> </ul>
c)	Update the grade of the student with <b>StudentID</b> 2 to 'A'.
d)	Delete the student with <b>StudentID</b> 3 from the <b>Students</b> table.
e)	Retrieve all data from the <b>Students</b> table.
f)	Retrieve only the <b>Name</b> and <b>Grade</b> columns from the <b>Students</b> table.
g)	Calculate the average age of all students.
h)	Calculate the count of students in each grade.
8.	To write a python program to pass list to a function and double the odd values and half even values of a list and display list element after changing
9.	Write a random number generator that generates random numbers between 1 and 6 (simulates a dice).
10.	<p>Write program to display</p> <p>a) *</p> <p>  * *</p> <p>   * * *</p> <p>    * * * *</p> <p>b) A</p> <p>  B C</p> <p>  D E F</p> <p>  G H I J</p>