



INDIAN SCHOOL AL WADI AL KABIR

Class: XII Comp Sci.	Department: Computer Science	Date of submission: 20/07/2020
Worksheet No: 4	Topic: List of Practical (Python Programs)	Note: Programs should be written in FS2Q Note Book.

Q. 1) Write a Python program to perform the following operations as per the user's choice.

Choice

Task

- 1 Input a number N and check whether it is a **prime No or not**.
- 2 Input Area (A) and height (h) of a Cone and calculate its volume ($V = \frac{1}{3} Ah$).
- 3 Invalid choice

Q. 2) Write a Python program to perform the following operations as per the user's choice.

Choice

Task

- 1 Input radius (r) of a **Sphere** and calculate its volume ($V = \frac{4}{3} \pi r^3$).
- 2 Input Marks of 50 students, Calculate and print **Maximum** and **Minimum Marks**.
- 3 Invalid choice

Q. 3) Write a Python program to perform the following operations as per the user's choice.

Choice

Task

- 1 Input a Number, calculate and print its **factorial value**.
- 2 Input 4 Bases (A, B, C, D) of a **Trapezoid**, calculate and display its Perimeter ($P = A + B + C + D$).
- 3 Invalid choice

Q. 4) Write a Python program to perform the following operations as per the user's choice.

Choice

Task

- 1 Input 2 diagonal side values P and Q of a **Rhombus** and calculate and display its Area ($Area = \frac{P*Q}{2}$).
- 2 Input **Net Salary of N employees**, Calculate and display the **count of No. of Employees who earned More than Rs. 50,000**.
- 3 Invalid choice

Q.5) Write a Python program to perform the following operations as per the user's choice.

Choice

Task

- 1 Input the Book Title, Price of the Book, No. of Copies, calculate and display the **Bill Amount (Price * No. of copies)**.
- 2 To display all the Odd Factors of a Number. (For eg: If the **No. is 30 – Odd factors** of 30 are 1, 3, 5, 15).
- 3 Invalid choice

Q. 6) Write a Python program to perform the following operations as per the user's choice.

Choice	Task
1	Read the distance in meters, convert and print it in __ Kilometer and __ Meters format. Eg: If Input is 8475 meters , then Output will be 8 Kilometers and 475 Meters .
2	To display all the Even Factors of a Number. (For eg: If the No. is 20 – Even factors of 20 are 2, 4, 10, 20).
3	Invalid choice

Q.7) Write a Python program to perform the following operations as per the user's choice.

Choice	Task
1	Input the Bill amount of a Garment Purchasing, calculate and display the Tax Amount (8 % of Bill Amount) and Amount Payable (Bill Amount + Tax) .
2	To display the sum of all nos. which are divisible by 8 between 500 and 750 .
3	Invalid choice

Q. 8) Write a Python program to perform the following operations as per the user's choice.

Choice	Task
1	Input the Semester Fees of a student during their admission in COVID 19 pandemic period, calculate and display the Special Discount (30 % of Bill Semester Fees) and Fees Payable (Semester Fees – Special Discount) .
2	To count and display all the multiples of 6 between 100 and 300.
3	Invalid choice

Q.9) Write a Python program to perform the following operations as per the user's choice.

Choice	Task
1	Input the temperature in Celsius , Convert and display the temperature in Fahrenheit (F = 1.8 C + 32) .
2	To display the sum of the series up to n terms $1 + \frac{x}{1} + \frac{x^2}{2} + \frac{x^3}{3} + \dots + \frac{x^n}{n}$.
3	Invalid choice

Q. 10) Write a Python program to perform the following operations as per the user's choice.

Choice	Task
1	Input the Amount (OMR) to transfer to India at a Money Exchange in Oman, Calculate and display the Transferred Amount in INR. (1 OMR = 194.173 INR) .
2	To display the sum of the series up to n terms $1 - \frac{x^2}{2} + \frac{x^3}{3} - \frac{x^4}{4} + \dots \pm \frac{x^n}{n}$
3	Invalid choice