

Assignment-1

- 1) Write a simple python program for a calculator that can do as many calculations as the user wants and will stop the calculation till the user enters a character (a to z).
- 2) Write a Python program to find the second largest number of three values. (HINT: use nested 'if else')

Expected output:

```
Input first number: 15
Input second number: 26
Input third number: 29
The second largest number is 26
```

- 3) Write a Python program to create the multiplication table (from 1 to 10) of a number (HINT: Use 'for' loop)

Expected output:

```
Input a number: 6
6 x 1 = 6
6 x 2 = 12
6 x 3 = 18
6 x 4 = 24
6 x 5 = 30
6 x 6 = 36
6 x 7 = 42
6 x 8 = 48
6 x 9 = 54
6 x 10 = 60
```

- 4) Write a Python program to calculate the sum and average of 10 float numbers (Take input from user, Use while control loop)
- 5) A retail store management wants to automate the process of generating the bill amount for its customers. And wants to perform following tasks:
To calculate the bill, the cashier must enter the name of each item purchased from the store and its price. The program should now calculate the total bill amount.
 - i. The retail store management now wants to provide 2% discount for all bill amounts above Rs. 500 and for all other bill amounts, a discount of 1%.
 - ii. Suppose the retail store management now wants to provide discount for all bills amounts as mentioned below in table.

Bill Amount	Discount %
>= 1000	5
>=500 and <1000	2
>0 and <500	1

- 6) Write a code to display all even numbers between 50 to 80. (NOTE: use 'for' loop with 'range'; also use 'if else' condition)

7) Write a Python program to construct the following pattern, using a nested for loop.

```
*  
* *  
* * *  
* * * *  
* * * * *  
* * * *  
* * *  
* *  
*
```