## Assignment – 1

1. Find out the temperature for 12 months of the year and find out the year's average temperature.

2. Write a Python program to get the values for a, b, c and evaluate the following expression

$$delta = \sqrt{b^2 - 4ac}$$

3. Get a three-digit number from the user and find the reverse of the number.

4. Get the principal amount, rate of interest, and number of years from the user and find the simple interest and compound interest.

5. Write a python program to find the roots of a quadratic equation.

6. Any year is input through the keyboard. Write a program to determine whether the year is a leap year or not.

7. If the three sides of a triangle are entered through the keyboard, write a program to check whether the triangle is valid or not. The triangle is valid if the sum of two sides is greater than the largest of the three sides.

8. A library charges a fine for every book returned late. For first 5 days the fine is 50 paise, for 6-10 days fine is one rupee and above 10 days fine is 5 rupees. If you return the book after 30 days your membership will be cancelled. Write a program to accept the number of days the member is late to return the book and display the fine or the appropriate message.