Assignment 1 (Due Date: 5 Feb 2023)

2022-23, Semester II   **Instructor: Dr. Gaurav Bhatnagar**

Write the R Routine for the following problems:

(1)   To find the sum of given 4 numbers. Also find its average.

(2)   A program which reads the value of the 3 sides of a triangle and calculates the area of that triangle.

(3)   To find the roots of the quadratic equation.

(4)   To find whether given integer n is a prime or not. Also write a separate/same program to generate a first 50 prime numbers.

(5)   To reverse a given integer of 5 digits.

(6)   To calculate the sum of the digits of an integer of 5 digits.

(7)   To find whether the given number is palindrome.

(8)   A program which reads two floating point numbers x and y, then interchange the values of x and y.

(9)   To find the minimum and maximum of a 1D and 2D array.

(10) To find the mean and median of a 1D and 2D array.

(11) To print the first n elements of Fibonacci series.

(12) Construct a matrix and do the following:

    (i)   Matrix Addition

    (ii)   Matrix Multiplication