

## Assignment 4

1. Write a program to read elements in a matrix and find the sum of main diagonal (major diagonal) elements of the matrix.

Input array elements:

1 2 3

4 5 6

7 8 9

Output

Sum of main diagonal elements = 15

2. Write a program to read elements in two matrices and add elements of both matrices.

Input

Input elements in 3x3 matrix1:

1 2 3

4 5 6

7 8 9

Input elements in 3x3 matrix2:

9 8 7

6 5 4

3 2 1

Output

Sum of both matrix =

10 10 10

10 10 10

10 10 10

3. Write a program to read elements in a matrix and find the sum of elements of each row of the matrix.

Input elements in array:

1 2 3

4 5 6

7 8 9

Output

Sum of row 1 = 6

Sum of row 2 = 15

Sum of row 3 = 24

4. Create a void function, take an integer then print it then call this method in main.

5. Create a function, take three integers then return the average as float value then call this method in main.
6. Create a function, take an integer then return true if this number is prime otherwise return false
7. Write a function to find a cube of a given number.

Input any number: 5

Output

Cube of 5 = 125

8. Write a program to input radius of circle from user and find diameter, circumference and area of the given circle using function.

Input radius: 10

Output

Diameter = 20 units

Circumference = 62.83 units

Area = 314.16 sq. units

9. create void function to take number and print all divisors of number
10. create function to take number and return true if this number can divide by 3 and 4