

Assignment 4

1. Create a void function, take an integer then print it then call this method in main.
2. Create a function, take three integers then return the average as float value then call this method in main.
3. Create a function, take an integer then return true if this number is prime otherwise return false
4. Write a function to find a cube of a given number.

Input

Input any number: 5

Output

Cube of 5 = 125

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

Input

Input radius: 10

Output

Diameter = 20 units
Circumference = 62.83 units
Area = 314.16 sq. units

6. Write a program to print all elements of an array using the function.

Input

Input elements: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

Output

Array elements: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

7. Write a program to find the sum of array elements using the function.

Input

```
Input array elements: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10
```

Output

```
Sum of array: 55
```

8. Write a program to find the maximum element in an array using the function.

Input

```
Elements in array: 5, 1, 6, 10, 2, 3, 6, 50, -7, 4
```

Output

```
Maximum element = 50
```

9. 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
```

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

Input

```
Input array elements:  
1 2 3  
4 5 6  
7 8 9
```

Output

```
Sum of main diagonal elements = 15
```

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

Input

```
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
```