1. Write a Python function to find the Max of three numbers.
2. Write a Python function to sum all the numbers in a list.

*Sample List* : (8, 2, 3, 0, 7)

*Expected Output* : 20

1. Write a Python function to multiply all the numbers in a list.

*Sample List* : (8, 2, 3, -1, 7)

*Expected Output* : -336

1. Write a Python program to reverse a string.

*Sample String* : "1234abcd"

*Expected Output* : "dcba4321"

1. Write a Python function to calculate the factorial of a number (a non-negative integer). The function accepts the number as an argument.
2. Write a Python function to check whether a number falls in a given range.
3. Write a Python function that accepts a string and calculate the number of uppercase letters and lower case letters.

*Sample String* : 'The quick Brow Fox'

*Expected Output* :

No. of Uppercase characters : 3

No. of Lower case Characters : 12

1. Write a Python function that takes a list and returns a new list with unique elements of the first list.

*Sample List :* [1,2,3,3,3,3,4,5]

*Unique List :* [1, 2, 3, 4, 5]

1. Write a Python function that takes a number as a parameter and checks if the number is prime or not.

Note : A prime number (or a prime) is a natural number greater than 1 and that has no positive divisors other than 1 and itself.

1. Write a Python program to print the even numbers from a given list.

*Sample List* : [1, 2, 3, 4, 5, 6, 7, 8, 9]

*Expected Result* : [2, 4, 6, 8]

1. Write a Python function to create and print a list where the values are square of numbers between 1 and 30 (both included).
2. Write a Python program to access a function inside a function.
3. Write a Python program to count the number of even and odd numbers from a series of numbers.

*Sample numbers* : numbers = (1, 2, 3, 4, 5, 6, 7, 8, 9)

*Expected Output* :

Number of even numbers : 5

Number of odd numbers : 4

1. Write a Python program which takes two digits m (row) and n (column) as input and generates a two-dimensional array. The element value in the i-th row and j-th column of the array should be i\*j.

Note :

i = 0,1.., m-1

j = 0,1, n-1.

Test Data : Rows = 3, Columns = 4

Expected Result : [[0, 0, 0, 0], [0, 1, 2, 3], [0, 2, 4, 6]]

1. Calculator