

**MANAV RACHNA UNIVERSITY, FARIDABAD**

**Department of Computer & Technology**

**Course: B.Tech (CST) Semester: IV Subject: Programming for Problem Solving using Python(CSW208B) Session: 2020-21**

***Lab-7:*** *Function- Pass by reference: hands-on practice*

***Learning Outcome CO*:** *Student will be able to implement Functions*

***Blooms Taxonomy Level****: BT1,BT3,BT3*

Functions

1. Write a program to multiply two numbers using functions.
2. Write a program to add two numbers using functions.
3. Calculate factorial of a number using function.
4. Create sequence of Fibonacci using function.
5. Write a program to swapping of two numbers using functions.
6. Write a function to find the HCF of some given numbers.
7. Write a function to find the ASCII value of the character.
8. Write a function func1() such that it can **accept a variable length of  argument**and print all arguments value

func1(20, 40, 60)

func1(80, 100)

**Expected Output**:

func1(20, 40, 60)

20

40

60

func1(80, 100)

1. 80
2. 100
3. **Write a function calculation () such that it can accept two variables and calculate the addition and subtraction of them. And also it must return both addition and subtraction in a single return call**

def calculation(a, b):

# Your Code

res = calculation(40, 10)

print(res)

**Expected Output**

1. 50, 30

**10.Create a function show Employee() in such a way that it should accept employee name, and its salary and display both. If the salary is missing in the function call assign default value 9000 to salary**

**Given**:

showEmployee("Ben", 9000)

showEmployee("Ben")

**Expected output**:

Employee Ben salary is: 9000  
Employee Ben salary is: 9000

#### Write a recursive function to calculate the sum of numbers from 0 to 10

**Expected Output**:

55

#### Assign a different name to function and call it through the new name

Below is the function displayStudent(name, age). Assign a new name showStudent(name, age) to it and call through the new name

def displayStudent(name, age):

print(name, age)

displayStudent("Emma", 26)

You should be able to call the same function using

showStudent(name, age)