Name:-Vaishali Bharat Sapkal

Roll No.:- 130

Assignment No:-03(3.1 Concept of Funtion in Python)

Assignment Title: Develop programs to learn concept of functions scoping, recursion and list mutability.

Code:

**3.1 Functions in Python:**

**3.1.1 Define a function in python:**

def my\_function():

print("Hello from a function")

#calling a function

my\_function()

**Output:-**

Hello from a function

**Or**

def squeare\_function(num):

print(num\*num)

n=int(input("Enter a number"))

squeare\_function(n)

**Output:-**

Enter a number 4

16

**3.1.2 Calling a function:**

def a\_function(string):

#this prints the value of length of string

return len(string)

str=input("Enter a String:")

result = a\_function(str)

print("length of the string fuction is:",result)

**Output:-**

Enter a String: vaishali

length of the string fuction is: 8

**3.1.3 return Statement:**

def square( num ):

return num\*\*2

# Calling function and passing arguments.

print( "With return statement" )

print( square( 5 ) )

**Output:-**

With return statement

25

**3.1.4 The Anonymous Functions:-**

Addition\_fun = lambda argument1, argument2: argument1 + argument2;

# Calling the function and passing values

print( "Value of the function is : ", Addition\_fun( 20, 30 ) )

print( "Value of the function is : ", Addition\_fun( 40, 50 ) )

**Output:-**

Value of the function is : 50

Value of the function is : 90

**3.1.5 Passing a List as an Argument:-**

def my\_function(fruits):

for x in fruits:

print(x)

fruits\_List = ["apple", "grapes", "Mango"]

my\_function(fruits\_List)

**Output:-**

apple

grapes

Mango