

CODE INDENTED BY RJD

Aim :- Write a Program in python to demonstrate the use of functions.

Declaring and calling a Normal Non Parameterized function.

```
In [6]: def my_function():  
        print("This is my Function.");  
  
        my_function();
```

Out[6]: This is my Function.

```
In [7]: def my_function():  
        print("Hello World.");  
        print("This is my Function.");  
        for i in range(4):  
            my_function();
```

Out[7]: Hello World.
This is my Function.
Hello World.
This is my Function.
Hello World.
This is my Function.
Hello World.
This is my Function.

Declaring and calling a Single Parameterized function.

```
In [8]: def your_name(name):  
        print("My Name is "+ name);  
  
        your_name("Rushi");
```

Out[8]: My Name is Rushi

```
In [9]: def your_name(name):  
        print("My Name is "+ name);  
  
        your_name("Rushi");  
        your_name("Sumit");  
        your_name("Shravan");  
        your_name("Piyush");  
        your_name("Harshit");
```

Out[9]: My Name is Rushi
My Name is Sumit
My Name is Shravan
My Name is Piyush
My Name is Harshit

Declaring and calling a Multi Parameterized function.

```
In [10]: def your_name(name_1,name_2):  
        print("My Name is " + name_1 + " and my name is " + name_2 + "." + " We both Love each other");  
  
        your_name("Meet","Shlok");
```

Out[10]: My Name is Meet and my name is Shlok. We both Love each other

```
In [11]: def your_name(name_1,name_2):  
        print("My Name is " + name_1 + " and my name is " + name_2 + "." + " We both Love each other");  
  
        your_name("Person_1","Person_2");  
        your_name("Person_2","Person_1");  
        your_name("Person_1","Person_2");
```

```
Out[11]: My Name is Person_1 and my name is Person_2. We both Love each other
My Name is Person_2 and my name is Person_1. We both Love each other
My Name is Person_1 and my name is Person_2. We both Love each other
```

Python Program to ADD two numbers using the concept of Parameter Passing in functions.

```
In [12]: def addTwoNumbers(num_1,num_2):
          num_3 = num_1 + num_2;
          print("The Numbers " + str(num_1) + " and " + str(num_2) + " Add to give " + str(num_3));

          addTwoNumbers(68,1);
```

```
Out[12]: The Numbers 68 and 1 Add to give 69
```

```
In [13]: def subTwoNumbers(num_1,num_2):
          num_3 = num_1 - num_2;
          print("The Numbers " + str(num_1) + " and " + str(num_2) + " Subtract to give " + str(num_3));

          subTwoNumbers(70,1);
```

```
Out[13]: The Numbers 70 and 1 Subtract to give 69
```

Printing a String List Using a Function.

```
In [14]: def myList():
          for x in fruits:
              print(x);
          fruits = ["Banana", "Apple", "Gauva", "Mango"];

          myList();
```

```
Out[14]: Banana
Apple
Gauva
Mango
```

Printing a Number List Using a Function.

```
In [15]: def myList():
          for x in fruits:
              print(x);
          fruits = [1,2,3,4,5,6,7,8,9,10];

          myList();
```

```
Out[15]: 1
2
3
4
5
6
7
8
9
10
```

Python program to print Factorial of a Number.

```
In [18]: def factorial(num):
          result = 1
          for i in range(1, num + 1):
              result *= i
          print("The factorial of " + str(num) + " is " + str(result))

          factorial(1);
          factorial(3);
          factorial(5);
          factorial(10);
```

```
Out[18]: The factorial of 1 is 1
The factorial of 3 is 6
The factorial of 5 is 120
The factorial of 10 is 3628800
```

Conclusion :- The Experiment has been successfully Executed.