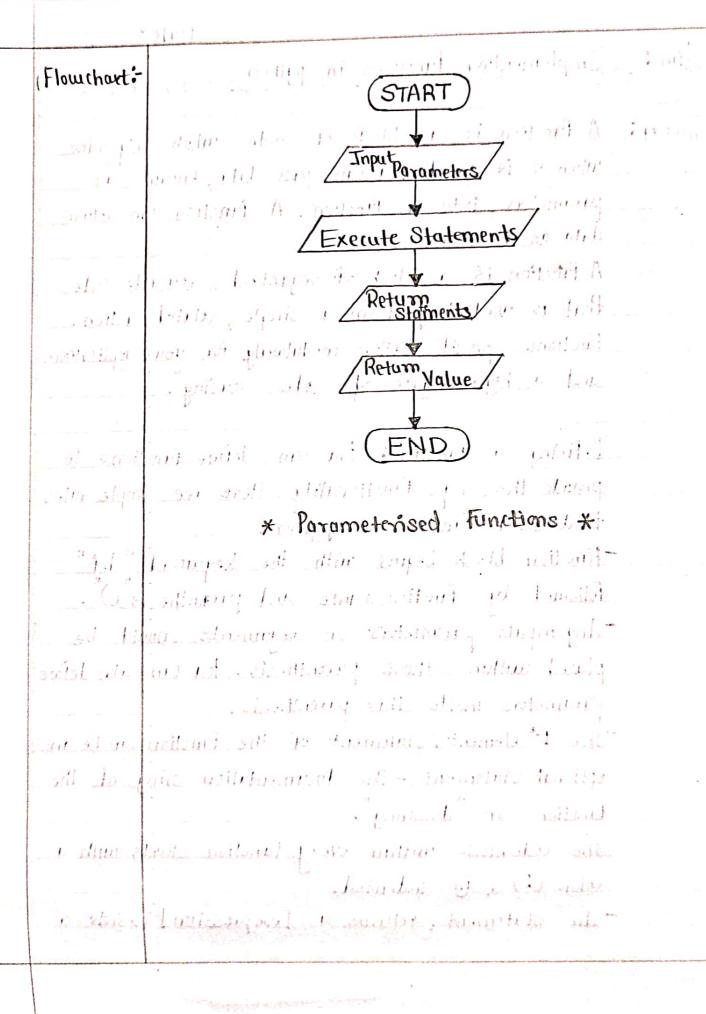
\* Non-parametric functions \*

	Date:
Aim:	Implementing functions in python
Theory:	A function is a block of code which only runs when it is called. You can pass data, known as parameters, into a function. A function can return data as a result.
	A function is a block of organized, reusable code
	that is used to perform a single related action.  Functions provide better modularity for your application.  and a high degree of rade reusing.
	Defining a function: You can define functions to provide the req. functionality. Here are simple rules to define a function in python.
	Function block begins with the keyword "def" followed by function name and parenthesis ().
	Any inputs parameters or orguments should be placed within these paranthesis. Flou can also define
	Parameters inside this parenthesis. The 1st element / statement of the function can be an
	optional Statement - the documentation string of the function or "docotting".
	The code block within every function starts with a colon (:) & is indented.
	The statement tetums 9 [expression] exsists a



	function, optimally passing back an expression to the caller. A return Statement with no organients is same as return none.
Syntax:	def function_name (parameters):  "function_dac_string"  function_suite
	return [expression]
Theory:	Parameters or Arguments.  The term parameter and argument can be used for the same thiny information that are passed into a function.  From a function's prespective:  A parameter is the variable listed inside the parenthesis in the function defimation.  An argument is the value that is send to the function when it is called the function of the function o
	Number of Arguments:  By default a function must be called with the correct number of orguments. Meaning that if your function expects 2 arguments, you have to call the function with 2 arguments, not more a not less.

Conclusion: The experiment has been successfully executed. beautiful to die the factor A , a HI of . granding at more at al if endanging I general their total sectors. 107. 30h milyan Hire with all Love suggest moth . . stammed re entrantif . : irem the is an temper but stranger for it Leave to the william by a polition of continuit a stru : suit of res Location is word einstruct all start lister start en research A . instrumentale contratt and and me \_\_ sell & love el troll solder sell or to soy it is followed to write without is stomeral to reduct sel al ar belle si Jam anthan e stand of Be note to the find of the diameters to be the total the of word but strongers a stronger and sould in a ten stronger & dine evilual at

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Kernel: SageMath 10.4
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## **CODE INDENTED BY RJD**

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

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Declaring and calling a Normal Non Parameterized function.
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your\_name("Person\_1","Person\_2");
your\_name("Person\_2","Person\_1");
your\_name("Person\_1","Person\_2");

```
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();
       71: 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");
```

```
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) + " Substract to give " + str(num_3));
            subTwoNumbers (70,1);
 Out[13]: The Numbers 70 and 1 Substract to give 69
          Printing a String List Using a Function.
     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();
          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.

Default Parameter Value:  The following example shows how to use a default parameter Value. If we call the function without argument, it uses the default value: initialized.  Passing a list as an Argument:  You can send any data types of orguments to a function (String, number, list, dictionary, etc) & it will be treated as the same data type inside the function.  Eq: if you send a list as an argument, it will still be a list when it reaches the function.  Return Values:  To let a function return a value, use the keyworld "return value to be returned" statement.  Canclusion: The experiment has been successfully executed.	-	
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