

## Experiment 1.3

**Student Name:**Rajiv Paul

**UID:**20BCS1812

**Branch:** CSE

**Section/Group:**607A

**Semester:** 4th

**Date of Performance:** 19/02/2022

**Subject Name:**Programming in Python Lab

**Subject Code:** 22E-20CSP-259

### 1) Aim/Overview of the practical:

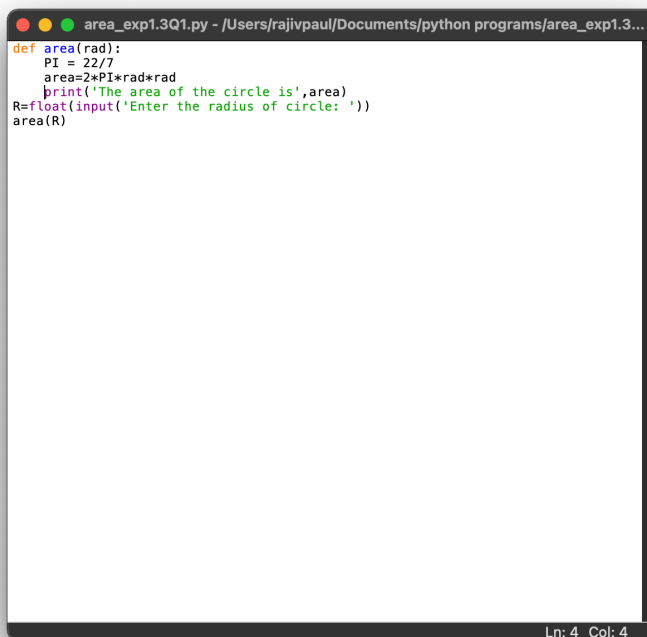
**Q1. Write a python program to calculate area of 10 different circles. Given the  $\pi = 22/7$  and radius of the circles entered by user using Simple Function , Parameterized Function , Return Type with function and return type with parameterized Functions .**

### 2) Task to be done/ Which logistics used:

**To write a python program to calculate area of 10 different circles. Given the  $\pi = 22/7$  and radius of the circles entered by user using Simple Function , Parameterized Function , Return Type with function and return type with parameterized Functions .**

### 3) Algorithm/Flowchart (For programming based labs):

#### 4) Steps for experiment/practical/Code:

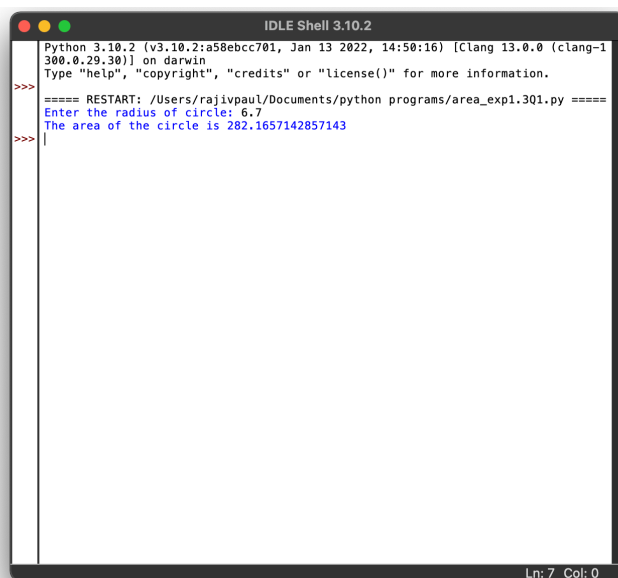


```
def area(rad):  
    PI = 22/7  
    area=2*PI*rad*rad  
    print('The area of the circle is',area)  
R=float(input('Enter the radius of circle: '))  
area(R)
```

Ln: 4 Col: 4

#### 5. Observations/Discussions/ Complexity Analysis:

## 6. Result/Output/Writing Summary:



```
Python 3.10.2 (v3.10.2:a58ebcc701, Jan 13 2022, 14:50:16) [Clang 13.0.0 (clang-1300.0.29.30)] on darwin
Type "help", "copyright", "credits" or "license()" for more information.
>>>
==== RESTART: /Users/rajivpaul/Documents/python programs/area_exp1.301.py ====
Enter the radius of circle: 6.7
The area of the circle is 282.1657142857143
>>> |
```

Ln: 7 Col: 0

### 1) Aim/Overview of the practical:

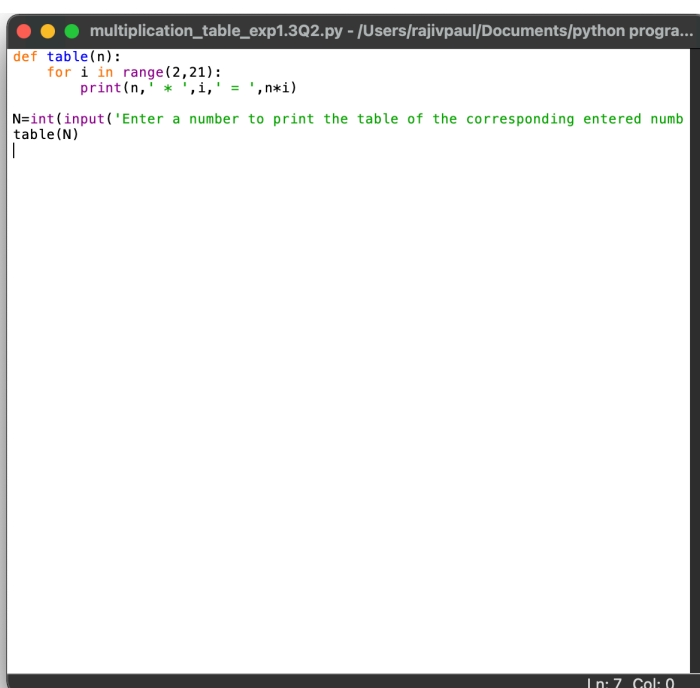
**Q2. Write a python program to print Multiplication tables from 2 to 20 whether table values entered by user using Simple Function , Parameterized Function , Return Type with function and return type with parameterized Functions .**

### 2) Task to be done/ Which logistics used:

**To write a python program to print Multiplication tables from 2 to 20 whether table values entered by user using Simple Function , Parameterized Function , Return Type with function and return type with parameterized Functions .**

### 3) Algorithm/Flowchart (For programming based labs):

### 4) Steps for experiment/practical/Code:

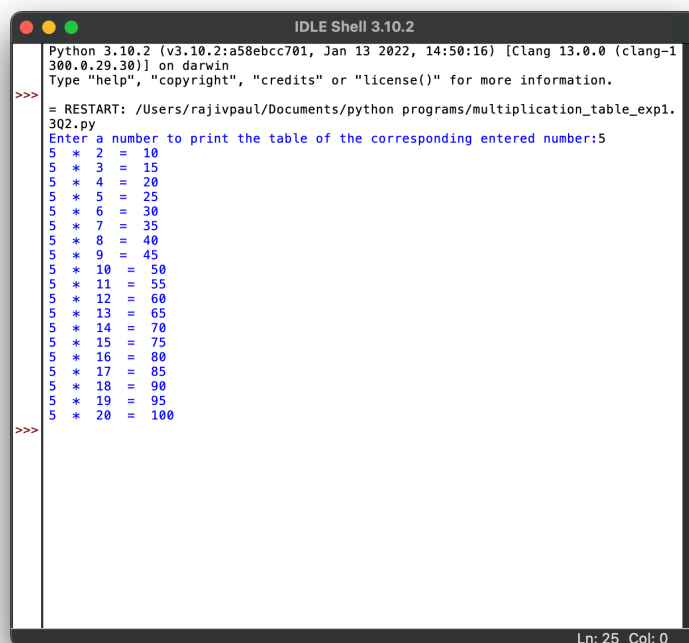


```
multiplication_table_exp1.3Q2.py - /Users/rajivpaul/Documents/python progra...
def table(n):
    for i in range(2,21):
        print(n, ' * ', i, ' = ', n*i)

N=int(input('Enter a number to print the table of the corresponding entered numb
table(N)
|
```

## 5. Observations/Discussions/ Complexity Analysis:

## 6. Result/Output/Writing Summary:



```
Python 3.10.2 (v3.10.2:a58ebcc701, Jan 13 2022, 14:50:16) [Clang 13.0.0 (clang-1300.0.29.30)] on darwin
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: /Users/rajivpaul/Documents/python programs/multiplication_table_exp1.302.py
Enter a number to print the table of the corresponding entered number:5
5 * 2 = 10
5 * 3 = 15
5 * 4 = 20
5 * 5 = 25
5 * 6 = 30
5 * 7 = 35
5 * 8 = 40
5 * 9 = 45
5 * 10 = 50
5 * 11 = 55
5 * 12 = 60
5 * 13 = 65
5 * 14 = 70
5 * 15 = 75
5 * 16 = 80
5 * 17 = 85
5 * 18 = 90
5 * 19 = 95
5 * 20 = 100
>>>
```

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**Learning outcomes (What I have learnt):**

- 1. Learnt about python programming language.**
- 2. Learnt about functions and methods.**
- 3.**
- 4.**
- 5.**

**Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):**

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			