



Worksheet – 1.3

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Branch: BE-CSE (LEET) Section/Group: 809/A

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Subject Name: Programming in Python Lab **Subject Code:** 20CSP-259

1. Aim/Overview of the practical:

I. Write a python program to calculate area of 10 different circles. Given the pie = 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.

II. 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:

- I. Find area of Circle using different types of method.
- II. Calculate the Multiplication table of 2 to 20 using different types of method.

3. Steps for experiment/practical/Code:

I. Find area of Circle using different types of method.

Sourse Code:

```
# Pi value initialization globally
pi=22/7

def areacir(n):
    ar = pi*(n**2)
    return ar

# Simple Function
def area7():
    a = float(input('Enter Radious 7: '))
    ar7 = pi*(a**2)
    print("Area 7 = ",ar7,"cm^2")

# Return Type with function
def area8():
    b = float(input('Enter Radious 8: '))
```





```
ar8 = pi*(b**2)
  return ar8
# Parameterized Function
def area9(c):
  ar9 = pi*(c**2)
  print("Area 9 = ",ar9,"cm^2")
# Return type with parameterized Functions
def area10(d):
  ar10 = pi*(d**2)
  return ar10
#main function
def circle():
  print('Area of 10 circle is as follows: ')
  for i in range(1,7):
    n = float(input('Enter Radious { }: '.format(i)))
    area = areacir(n)
    print("Area {0} = {1} cm^2".format(i,area))
  # Simple Function call
  area7()
  # Return Type with function call
  ar8 = area8()
  print("Area 8 = ",ar8,"cm^2")
  # Parameterized Function call
  c = float(input('Enter Radious 9: '))
  area9(c)
  # Return type with parameterized Functions call
  d = float(input('Enter Radious 10: '))
  ar10 = area10(d)
  print("Area 10 = ",ar10,"cm^2")
#main function call
circle()
```





II. Calculate the Multiplication table of 2 to 20 using different types of method.

Sourse Code:

```
# Parameterized Function

def table(num):

# For range 2 to 20 according to the question

for i in range(2,20+1):

print(num,' x ', i, ' = ',num*i)

num = int(input('Enter the Number: '))

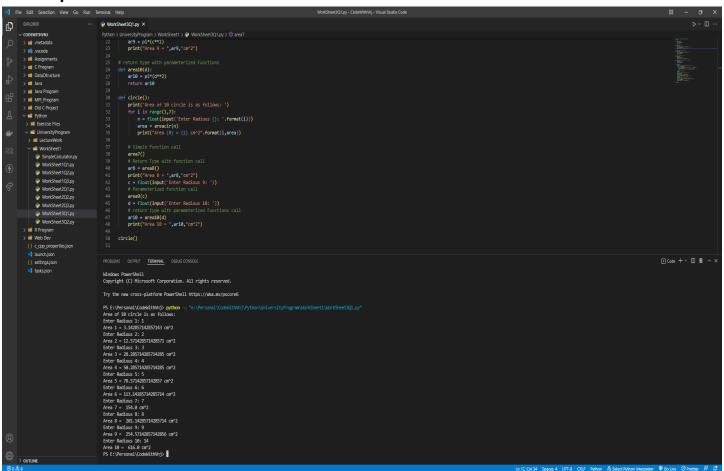
# Parameterized Function call

table(num)
```

4. Result/Output/Writing Summary:

I. Find area of Circle using different types of method.

Output:

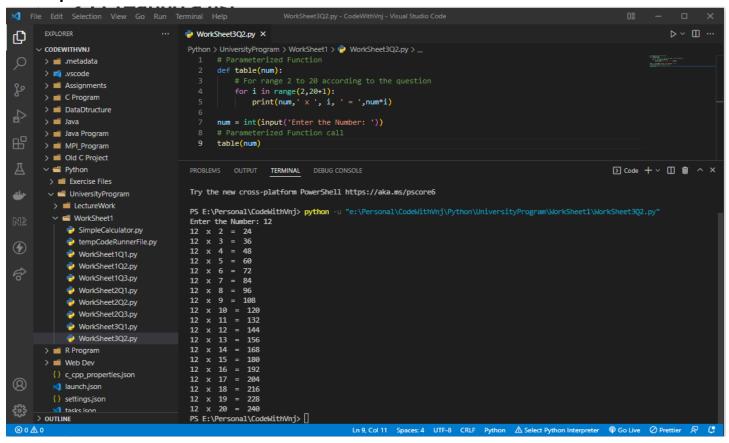








II. Calculate the Multiplication table of 2 to 20 using different types of method. **Output:**



Learning outcomes (What I have learnt):

- 1. I have learnt, how to find Armstrong Number.
- **2.** Learnt to find the Palindrome number.
- **3.** Learnt to find the Largest number.

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. | | | |
| 4 | | | |
| | | | |

