

Lab 7**Name: Shashank Bagda****Date: 27/07/22****Enrollment No: 92100133020****CO1: To write, test, and debug simple Python programs****CO2: To implement Python programs with conditional, loops and functions****Task1:** Write a python code for calculator**Python Code:**

```
def addition(x,y):
```

```
    return x+y
```

```
def Substraction(x,y):
```

```
    return x-y
```

```
def multiply(x, y):
```

```
    return x * y
```

```
def divide(x, y):
```

```
    return x / y
```

```
import Calculator
```

```
print(Calculator.addition(3, 5))
```

```
print(Calculator.Substraction(3, 5))
```

```
print(Calculator.multiply(3, 5))
```

```
print(Calculator.divide(3, 5))
```

Output:

8

-2

15

0.6

Task2: Python program to find the area**Python Code:**

```
def Circular(r):
```

```
    return 3.14*(r**2)
```

```
def Triangular(b,h):  
    return 1/2*(b*h)
```

```
def Rectangular(l,w):  
    return l*w
```

```
import Area  
print(Area.Circular(5))  
print(Area.Rectangular(2, 3))  
print(Area.Triangular(3, 4))
```

Output:

```
78.5  
6  
6.0
```

Task3: Use of Math library**Python Code:**

```
import math  
print(math.sqrt(16))  
  
print(math.factorial(5))  
  
print(math.cos(45))  
  
print(math.sin(30))  
  
print(math.tan(90))
```

Output: 4.0

```
120  
0.5253219888177297  
-0.9880316240928618  
-1.995200412208242
```

Task4: Use random library**Python Code:**

```
import random  
print(random.randint(3,5))  
print(random.random()*10)num = int(input("Enter a number: "))
```

Output:

3

6.759291201935138