

**Exercise 2**

Write a program using user-defined functions to find the area of rectangle, square, circle and triangle by accepting suitable input parameters from user.

**Code**

```
import math
def rectangle():
    length, breadth = input("Enter length and breadth of the rectangle: ").split()
    return float(length) * float(breadth)

def square():
    side = float(input("\nEnter side length of the square: "))
    return side * side

def triangle():
    height, breadth = input("\nEnter height and breadth of the triangle: ").split()
    return 0.5 * float(breadth) * float(height)

def circle():
    radius = float(input("\nEnter radius of the circle: "))
    return math.pi * radius * radius

if __name__ == "__main__" :
    print(f'The area of rectangle is: {rectangle()}')
    print(f'The area of circle is: {circle()}')
    print(f'The area of triangle is: {triangle()}')
    print(f'The area of square is: {square()}')
```

**Output**

Enter length and breadth of the rectangle: 8 12 The area of rectangle is: 96.0	Enter length and breadth of the rectangle: 12 7 The area of rectangle is: 84.0
Enter radius of the circle: 7 The area of circle is: 153.93804002589985	Enter radius of the circle: 5 The area of circle is: 78.53981633974483
Enter height and breadth of the triangle: 6 10 The area of triangle is: 30.0	Enter height and breadth of the triangle: 10 5 The area of triangle is: 25.0
Enter side length of the square: 5 The area of square is: 25.0	Enter side length of the square: 7 The area of square is: 49.0

Date of Submission	Signature of the Faculty
Remarks	