

# GROUP A

## PDS Assignment No.- 02

### PDS Group A-Assignment No ②

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#### AIM-

- ① Write a program that prompts the user to input the radius of circle and outputs the area and circumference of the circle.
- ② Write a program that asks user input the length of sides of the triangle and print the area. Suppose  $a, b$  and  $c$  denotes lengths of the side of a triangle then the area of triangle can be calculated using the formula.

#### Theory →

#### python programming language →

- python is commonly used for developing websites and software, task automation, data analysis, and data visualization. Since it's relatively easy to learn in comparison with the other programming languages.
- python has been adopted by many non-programmers such as accountants, for variety of everyday tasks, like organizing finances.

#### Libraries and packages in the python →

- Packages are a collection of related modules that aim to achieve a common goal.
- Finally, the python standard library is a collection of packages and modules that can be used access built-in functionality.
- We can import any necessary modules into our python script without any issues.

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## Program code:

```
# PDS_GROUP_A_ASSIGNMENT 02_PART A

print("\nAssignment No.2 Part A_Calculating area of circle and
circumference")

Pi = 3.14

print("SCOB86_Rudraksh Karpe\n")

r = float(input("Enter the radius of a circle:"))

area = Pi * r * r

Circumference = 2*3.14*r

print("Area of a circle = %.2f" %area)

print("Circumference of a circle = %.2f" %Circumference)

# PDS_GROUP_A_ASSIGNMENT 02_PART B

print("-----")

print("Assignment No.2 Part B_Calculating area of Traingle")

import math

side1 = float(input("Enter length of side 1: "))

side2 = float(input("Enter length of side 2: "))

side3 = float(input("Enter length of side 3: "))

S = (side1+side2+side3)/2

area = math.sqrt(S*(S-side1)*S*(S-side1)*S*(S-side1))

print("Area of Traingle is = %.2f" %area)
```

## Output:

```
PS C:\Users\rudra> python -U "r:\GHRCEM\PDS LAB\Assignment_02.py"

Assignment No.2 Part A_Calculating area of circle and circumference
SCOB86_Rudraksh Karpe

Enter the radius of a circle:7
Area of a circle = 153.86
Circumference of a circle = 43.96
-----
Assignment No.2 Part B_Calculating area of Traingle
Enter length of side 1: 3
Enter length of side 2: 4
Enter length of side 3: 5
Area of Traingle is  = 76.37
PS C:\Users\rudra> █
```