LAB 1: Program to calculate area of reactangle,traingle,circle.

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**Logic of Program** :

Logic of program as follows:

1. Select choice from user
2. compute area
3. display the area
```

In [2]:

```python
Shape = input("Enter the shape u have to find area of : ")
if Shape == "Rectangle":
    w = int(input("Enter width "))
    h = int(input("Enter height "))
    Area1 = float(w*h)
    print("Area of Rectangle with w : {} and h : {} is Area1 : {}".format(w,h,Area1))

elif Shape == "Traingle":
    b = int(input("Enter base"))
    h1 = int(input("Enter the height"))
    Area2 = float(0.5*b*h)
    print("Area of Traingle with b : {} and h : {} is Area2 : {}".format(b,h,Area2))

elif Shape == "Circle":
    r = int(input("Enter radius"))
    Area3 = float(3.14 * r * r)
    print("Area of Circle with r : {} is Area3 : {}.".format(r,Area3))

else:
    print("Shape Not found")
```

```
Enter the shape u have to find area of : Circle
Enter radius4
Area of Circle with r : 4 is Area3 : 50.24.
```

In [5]:

```python
Shape = input("Enter the shape u have to find area of : ")
if Shape == "Rectangle":
    w = int(input("Enter width "))
    h = int(input("Enter height "))
    Area1 = float(w*h)
    print("Area of Rectangle with w : {} and h : {} is Area1 : {}".format(w,h,Area1))

elif Shape == "Traingle":
    b = int(input("Enter base"))
    h1 = int(input("Enter the height"))
    Area2 = float(0.5*b*h1)
    print("Area of Traingle with b : {} and h : {} is Area2 : {}".format(b,h1,Area2))

elif Shape == "Circle":
    r = int(input("Enter radius"))
    Area3 = float(3.14 * r * r)
    print("Area of Circle with r : {} is Area3 : {}.".format(r,Area3))

else:
    print("Shape Not found")
```

```
Enter the shape u have to find area of : Traingle
Enter base3
Enter the height4
Area of Traingle with b : 3 and h : 4 is Area2 : 6.0
```

In [6]:

```python
Shape = input("Enter the shape u have to find area of : ")
if Shape == "Rectangle":
    w = int(input("Enter width "))
    h = int(input("Enter height "))
    Area1 = float(w*h)
    print("Area of Rectangle with w : {} and h : {} is Area1 : {}".format(w,h,Area1))

elif Shape == "Traingle":
    b = int(input("Enter base"))
    h1 = int(input("Enter the height"))
    Area2 = float(0.5*b*h)
    print("Area of Traingle with b : {} and h : {} is Area2 : {}".format(b,h,Area2))

elif Shape == "Circle":
    r = int(input("Enter radius"))
    Area3 = float(3.14 * r * r)
    print("Area of Circle with r : {} is Area3 : {}.".format(r,Area3))

else:
    print("Shape Not found")
```

```
Enter the shape u have to find area of : Rectangle
Enter width 4
Enter height 5
Area of Rectangle with w : 4 and h : 5 is Area1 : 20.0
```

In [ ]: