LAB 1- Program to calculate area of triangle, rectangle and circle

Logic of Program

- 1. Ask user to enter the shape for which he or she want to compute area
- 2. Check whether the input is correct.
- 3. If yes
 - Take input from user for the parameters require to compute the area
 - · Print the output
- 4. If no
 - · Ask user to give valid input

In [1]:

```
ch = int(input("Enter the shape for which you want to compute area:\n 1 - for Triangle
\n 2 - for Rectangle\n 3 - for Circle\n"))
if ch is 1:
    base = float(input("Enter base of the triangle: "))
    height = float(input("Enter height of the triangle: "))
    area1 = 0.5 * base * height
    print("Area of triangle with base {} and height {} is {} sq. cm".format(base,height
,area1))
elif ch is 2:
    leng = float(input("Enter lenght of the rectangle "))
    b = float(input("Enter width of the rectangle "))
    area2 = leng * b
    print("Area of rectangle with length {} and width {} is {} sq. cm".format(leng,b,ar
ea2))
elif ch is 3:
    radius = float(input("Enter radius of the circle "))
    area = 3.14 * radius * radius
    print("Area of the circle with radius {} is {} sq. cm".format(radius, area, 3.14*radi
us*radius))
else:
    print("Invalid Input")
Enter the shape for which you want to compute area:
```

```
Enter the shape for which you want to compute area:

1 for Triangle
2 for Rectangle
3 for Circle
2
Enter lenght of the rectangle 10
Enter width of the rectangle 50
Area of rectangle with length 10.0 and width 50.0 is 500.0 sq. cm
```

```
In [ ]:
```