

1. Write a Python program that takes the length and width of a rectangle from the user and prints its area.

Area of a Rectangle

Python

```
# Program 1: Area of a rectangle
```

```
length = float(input("Enter the length of the rectangle:"))
```

```
width = float(input("Enter the width of the rectangle:"))
```

```
area = length * width
```

```
Print ("The area of the rectangle is:", area)
```

2. Write a program that asks the user for the side of a square and prints its Perimeter.

Perimeter of a Square

```
# Program 2 : perimeter of a Square
```

```
side = float(input("Enter the side of the square:"))
```

```
Perimeter = 4 * side
```

```
Print ("The perimeter of the square is:", Perimeter)
```

3. Take the base and height of a triangle as input and print its area.

Area of a Triangle

#Program 3: Area of a Triangle

```
base = float(input("Enter the base of the triangle:"))
```

```
height = float(input("Enter the height of the triangle:"))
```

```
area = 0.5 * base * height
```

```
Print("The area of the triangle is:", area)
```

4. Write a program that asks the user for the radius of a circle and prints its Circumference (use 3.14 for π).

Circumference of a Circle

Program 4: Circumference of a Circle

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

```
Circumference = 2 * 3.14 * radius
```

```
Print("The Circumference of the Circle is:", Circumference)
```

5. Take Principal (P), Rate (R) and Time (T) as input from the user and print the Simple Interest.

Simple Interest

Program 5: Simple Interest

```
P = float(input ("Enter the Principal amount : "))  
R = float(input ("Enter the Rate of interest : "))  
T = float(input ("Enter the Time (in years) : "))
```

$$\text{Simple_interest} = (P * R * T) / 100$$

```
Print ("The Simple Interest", Simple_interest)
```