**Assignment-2**

**1.**  **Write a Python program to perform the following operations based on two values input by the user:**

**(Addition, Subtraction, Multiplication, Division**

**2. Area and Circumference of a Circle**

Write a Python program to calculate:

* **Area of a Circle** = π × radius²
* **Circumference of a Circle** = 2 × π × radius  
  Take the radius as input from the user.

**3. Simple Interest Calculation**

Write a Python program to calculate **simple interest** using the formula:

* Simple Interest = (P × R × T) / 100  
  Where:
  + **P**: Principal amount (input by user)
  + **R**: Rate of interest (input by user)
  + **T**: Time in years (input by user)

**4. Perimeter of a Rectangle**

Write a Python program to calculate the **perimeter of a rectangle** using the formula:

* Perimeter = 2 × (Length + Width)  
  Take **Length** and **Width** as input from the user.

**5. Area and Perimeter of a Rectangle**

Write a Python program to calculate:

* **Area** = Length × Width
* **Perimeter** = 2 × (Length + Width)  
  Take **Length** and **Width** as input from the user.

**6. Perimeter of a Triangle**

Write a Python program to calculate the **perimeter of a triangle** using the formula:

* Perimeter = a + b + c  
  Take the lengths of the three sides (**a**, **b**, **c**) as input from the user.

**7. Area and Perimeter of a Square**

Write a Python program to calculate:

* **Area** = Side × Side
* **Perimeter** = 4 × Side  
  Take the **Side** as input from the user.

**8. Perimeter of a Square**

Write a Python program to calculate:

* **Perimeter** = 4 × Side  
  Take the **Side** as input from the user.

**9. Perimeter of a Square**

Write a Python program to calculate the **perimeter of a square** using the formula:

* Perimeter = 4 × Side  
  Take the **Side** as input from the user.

**10. Volume of a Cylinder**

Write a Python program to calculate the **volume of a cylinder** using the formula:

* Volume = π × radius² × height  
  Take the **radius** and **height** as input from the user.