INDIAN SCHOOL AL WADI AL KABIR

Class: VIII	Department: Computer Science	Year :2025-2026
Worksheet with Solutions:	Topic: Introduction to Python	

Practical Activity

1. **Write a Python program to calculate the area and perimeter of a Rectangle**

   length = float(input("enter the length of the rectangle"))

   breadth= float(input("enter the breadth of the rectangle"))

   area= length * breadth

   perimeter=2*(length + breadth)

   print("Area of the rectangle is", area)

   print("Perimeter of the rectangle is", perimeter)

2. **Write a python program to perform addition, subtraction, multiplication and division of two numbers entered by the user**

   num1=float(input("enter the first number"))
   num2=float(input("enter the second number"))
   addition =num1+num2
   subtraction=num1-num2
   multiplication=num1*num2
   division=num1/num2
   print("Addition of two numbers is", addition)
   print("Difference of two numbers is", subtraction)
   print("product of two numbers is", multiplication)
   print("quotient is", division)

3. *Write a Python program to calculate the area and circumference of a circle.*
    Hint: Area=3.146*radius *radius
    Circumference=2*3.146*radius

    Program:

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

    area = 3.14 * radius * radius

    circumference = 2 * 3.14 * radius

    print("Area of the circle:", area)

    print("Circumference of the circle:", circumference)
    ```

4. *Write a Python program to calculate the simple interest*
    Hint: Simple Interest=principal*rate*time/100

    ```python
    principal = float(input("Enter principal amount: "))

    rate = float(input("Enter rate of interest: "))

    time = float(input("Enter time in years: "))

    simple_interest = (principal * rate * time) / 100

    print("Simple Interest =", simple_interest)
    ```