Program 1.Create a Java program that acts as a simple calculator.

● The program should prompt the user to enter two numbers and an operator (+, -,

*, /).

● Perform the corresponding calculation based on the operator.

● Handle potential exceptions, such as division by zero or invalid operator input.

● Display the result or an appropriate error message.

```
//Program
import java.util.Scanner;
// creating a SimpleCalculator class
public class SimpleCalculator {
   public static void main(String[] args) {
       Scanner scanner = new Scanner(System.in);
      //try block execute
       try {
          System.out.print("Enter the first number: ");
          double num1 = scanner.nextDouble();

          System.out.print("Enter the second number: ");
          double num2 = scanner.nextDouble();
```

```
System.out.print("Enter the operator (+, -, *, /): ");
char operator = scanner.next().charAt(0);

double result;

switch (operator) {
    case '+':
        result = num1 + num2;
        break;
    case '-':
        result = num1 - num2;
        break;
    case '*':
        result = num1 * num2;
        break;
    case '/':
        if (num2 != 0) {
            result = num1 / num2;
        } else {
            System.out.println("Error: Division by zero is not allowed.");
            return;
        }
        break;
    default:
```

```
                System.out.println("Error: Invalid operator input.");
                return;
            }

            System.out.println("Result: " + result);

        }
//catch block
 catch (Exception e) {
            System.out.println("Error: Invalid input. Please enter valid numbers and operator.");
        }
// final block
 finally {
            scanner.close();
        }
    }
}
```

Output:

```
Enter the first number: 5
Enter the second number: 4
Enter the operator (+, -, *, /): +
Result: 9.0
```