```
Import java.util.Scanner;
Public class Calculator {
  Public static void main(String[] args) {
    Scanner scanner = new Scanner(System.in);
    System.out.print("Enter the first number: ");
    Double num1 = scanner.nextDouble();
    System.out.print("Enter the second number: ");
    Double num2 = scanner.nextDouble();
    System.out.println("Select operation:");
    System.out.println("1. Addition");
    System.out.println("2. Subtraction");
    System.out.println("3. Multiplication");
    System.out.println("4. Division");
    System.out.print("Enter choice (1-4): ");
    Int choice = scanner.nextInt();
    Double result = 0;
    Switch (choice) {
      Case 1:
         Result = num1 + num2;
         Break;
      Case 2:
```

```
Result = num1 - num2;
        Break;
      Case 3:
        Result = num1 * num2;
        Break;
      Case 4:
        If (num2 != 0) {
           Result = num1 / num2;
        } else {
          System.out.println("Error: Cannot divide by zero.");
           Return;
        }
        Break;
      Default:
        System.out.println("Invalid choice. Please enter a number between 1 and 4.");
        Return;
    }
    System.out.println("Result: " + result);
 }
}
Number Guessing Game
Import java.util.Random;
Import java.util.Scanner;
```

```
Public class NumberGuessingGame {
  Public static void main(String[] args) {
    Scanner scanner = new Scanner(System.in);
    Random random = new Random();
    Int lowerBound = 1;
    Int upperBound = 100;
    Int randomNumber = random.nextInt(upperBound - lowerBound + 1) + lowerBound;
    Int userGuess;
    Int attempts = 0;
    System.out.println("Welcome to the Number Guessing Game!");
    System.out.println("I have selected a random number between " + lowerBound + " and " +
upperBound + ". Try to guess it.");
    Do {
      System.out.print("Enter your guess: ");
      userGuess = scanner.nextInt();
      attempts++;
      if (userGuess < randomNumber) {</pre>
        System.out.println("Too low! Try again.");
      } else if (userGuess > randomNumber) {
        System.out.println("Too high! Try again.");
      } else {
        System.out.println("Congratulations! You guessed the correct number in " + attempts + "
attempts.");
      }
```

```
} while (userGuess != randomNumber);

Scanner.close();
}
```