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import java.util.Scanner;
public class BasicCalculator {
  public static void main(String[] args) {
     Scanner scanner = new Scanner(System.in);
     System.out.println("Welcome to the Basic Calculator!");
     System.out.println("Choose an operation:");
     System.out.println("1. Addition (+)");
     System.out.println("2. Subtraction (-)");
     System.out.println("3. Multiplication (*)");
     System.out.println("4. Division (/)");
     System.out.println("5. Exit");
     while (true) {
       System.out.print("\nEnter your choice (1-5): ");
       int choice = scanner.nextInt();
       if (choice == 5) {
          System.out.println("Exiting the calculator. Goodbye!");
          break;
       }
       if (choice < 1 || choice > 5) {
          System.out.println("Invalid choice! Please try again.");
          continue;
       }
       System.out.print("Enter the first number: ");
       double num1 = scanner.nextDouble();
        System.out.print("Enter the second number: ");
       double num2 = scanner.nextDouble();
       switch (choice) {
          case 1:
             System.out.println("Result: " + (num1 + num2));
             break:
          case 2:
             System.out.println("Result: " + (num1 - num2));
             break:
          case 3:
             System.out.println("Result: " + (num1 * num2));
             break:
          case 4:
             if (num2 != 0) {
               System.out.println("Result: " + (num1 / num2));
               System.out.println("Error: Division by zero is not allowed.");
             break;
       }
     }
     scanner.close();
```

}		