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import java.util.InputMismatchException;
import java.util.Scanner;

public class TemperatureConverter {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);

        try {
            // Display the menu to the user
            System.out.println("Welcome to the Temperature Converter!");
            System.out.println("Choose an option:");
            System.out.println("1. Convert Celsius to Fahrenheit");
            System.out.println("2. Convert Fahrenheit to Celsius");

            // Get the user's choice and validate it
            int choice = scanner.nextInt();
            if (choice != 1 && choice != 2) {
                System.out.println("Invalid choice! Please restart the program and choose 1 or
2.");
                return;
            }

            // Prompt the user to enter the temperature value
            System.out.print("Enter the temperature value to convert: ");
            double inputTemp = scanner.nextDouble();

            double convertedTemp;
            if (choice == 1) {
                // Convert Celsius to Fahrenheit
                convertedTemp = (inputTemp * 9 / 5) + 32;
                System.out.printf("%.2f°C is equal to %.2f°F\n", inputTemp, convertedTemp);
            } else {
                // Convert Fahrenheit to Celsius
                convertedTemp = (inputTemp - 32) * 5 / 9;
                System.out.printf("%.2f°F is equal to %.2f°C\n", inputTemp, convertedTemp);
            }
        } catch (InputMismatchException e) {
            System.out.println("Invalid input! Please enter numbers only for temperature
and menu options.");
        } finally {
            System.out.println("Thank you for using the Temperature Converter!");
            scanner.close();
        }
    }
}

```

}

}

}