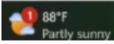
Programiz Online Java Compiler

```
Main.java
 1 - import java.util.Random;
    import java.util.Scanner;
 3
 4 - public class NumberGuessingGame {
        public static void main(String[] args) {
            Scanner scanner = new Scanner(System.in);
 6
            Random random = new Random();
 7
 8
 9
            int lowerBound = 1;
            int upperBound = 100;
10
            int randomNumber = random.nextInt(upperBound - lowerBound + 1) +
11
                lowerBound;
12
            System.out.println("Number Guessing Game");
13
            System.out.println("Guess the number between " + lowerBound + " and " +
14
                upperBound);
15
16
            int guessCount = 0;
            int userGuess;
17
18
19 -
            do {
                System.out.print("Enter your guess: ");
20
21
                userGuess = scanner.nextInt();
22
                guessCount++;
23
24 -
                if (userGuess < randomNumber) {
```











```
n.java
                                                                               Run
        int randomNumber = random.nextInt(upperBound - lowerBound + 1) +
            lowerBound:
        System.out.println("Number Guessing Game");
        System.out.println("Guess the number between " + lowerBound + " and " +
            upperBound);
        int guessCount = 0;
        int userGuess;
        do {
            System.out.print("Enter your guess: ");
            userGuess = scanner.nextInt();
            guessCount++;
            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 number in
                   " + guessCount + " attempts.");
       } while (userGuess != randomNumber);
   }
```

java -cp /tmp/J7LNocSmYH NumberGuessingGame

Number Guessing Game

Guess the number between 1 and 100

Enter your guess: 7

Too low! Try again.

Enter your guess: 27

Too low! Try again.

Enter your guess: 37

Too high! Try again.

Enter your guess: 30

Too low! Try again.

Enter your guess: 34

Too high! Try again.

Enter your guess: 32

Too low! Try again.

Enter your guess: 33

Congratulations! You guessed the number in 7 attempts.

















```
Main.java
1 - import java.util.Scanner;
2
3 - public class SimpleCalculator {
        public static void main(String[] args) {
4 -
            Scanner scanner = new Scanner(System.in);
6
            System.out.println("Simple Calculator");
            System.out.print("Enter first number: ");
9
            double num1 = scanner.nextDouble();
10
            System.out.print("Enter second number: ");
11
12
            double num2 = scanner.nextDouble():
13
14
            System.out.println("Choose operation: ");
            System.out.println("1. Addition");
15
            System.out.println("2. Subtraction");
16
17
            System.out.println("3. Multiplication");
            System.out.println("4. Division");
18
19
20
            System.out.print("Enter operation number: ");
21
            int choice = scanner.nextInt();
22
23
            double result = 0;
24
25 -
            switch (choice) {
26
                case 1:
```







```
Main.java
25 -
            switch (choice) {
26
                 case 1:
27
                     result = num1 + num2;
28
                     break;
29
                 case 2:
30
                     result = num1 - num2;
31
                     break;
32
                 case 3:
33
                     result = num1 * num2;
34
                     break:
35
                 case 4:
36 *
                     if (num2 != 0) {
37
                         result = num1 / num2;
38 -
                     } else {
39
                         System.out.println("Cannot divide by zero.");
40
                         return;
41
42
                     break;
43
                 default:
44
                     System.out.println("Invalid operation.");
45
                     return;
46
47
48
            System.out.println("Result: " + result);
49
       }
50
   }
```

Output

→ java -cp /tmp/J7LNocSmYH SimpleCalculator

Simple Calculator

Enter first number: 30

Enter second number: 38

Choose operation: 1. Addition

2. Subtraction

3. Multiplication

4. Division

Enter operation number: 1

Result: 68.0