

Main.java



Run

```

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

```
        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);
```

```
}
```

Output

Clear

```
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.
```



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Main.java

```
1- import java.util.Scanner;
2
3- public class SimpleCalculator {
4-     public static void main(String[] args) {
5         Scanner scanner = new Scanner(System.in);
6
7         System.out.println("Simple Calculator");
8         System.out.print("Enter first number: ");
9         double num1 = scanner.nextDouble();
10
11        System.out.print("Enter second number: ");
12        double num2 = scanner.nextDouble();
13
14        System.out.println("Choose operation: ");
15        System.out.println("1. Addition");
16        System.out.println("2. Subtraction");
17        System.out.println("3. Multiplication");
18        System.out.println("4. Division");
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
```