

Number Guessing Game

CODE :

```
package Practice;

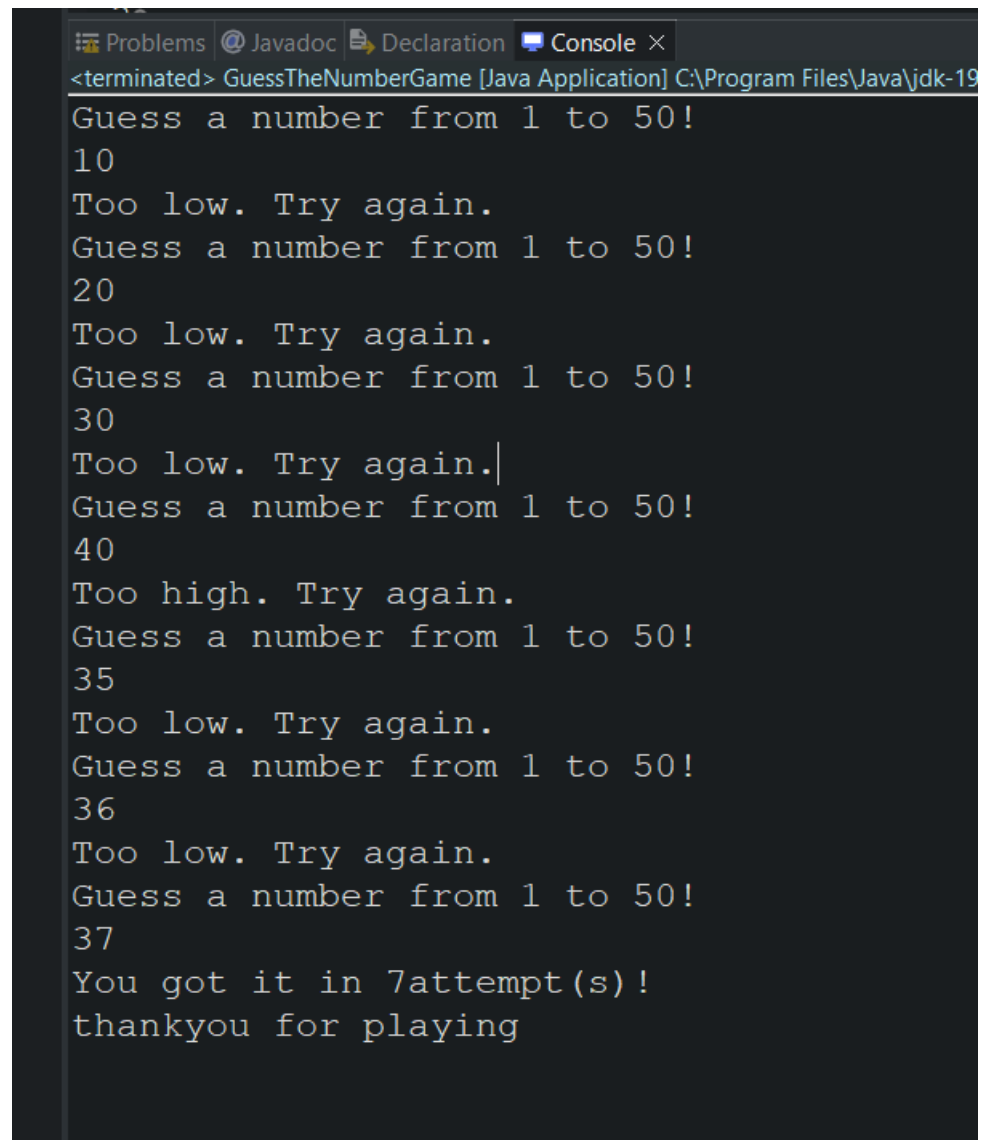
import java.util.Random;
import java.util.Scanner;
import java.util.InputMismatchException;

class onlyinterger extends Exception {
    public onlyinterger() {
        System.out.println("only enter integer values from 1 to 50");
    }
}

public class GuessTheNumberGame {
    private static Scanner sc;
    public static void main(String[] args) {
        try {
            Random ran = new Random();
            int numberToGuess = ran.nextInt(50) + 1;
            int numberOfTries = 0;
            sc = new Scanner(System.in);
            int guess;
            boolean win = false;
            while (win == false) {
                System.out.println("Guess a number from 1 to 50!");
                guess = sc.nextInt();
                numberOfTries++;
                if (guess <= 0) {
                    throw new onlyinterger();
                }
                if (guess > 50) {
                    throw new onlyinterger();
                }
                if (guess == numberToGuess) {
                    win = true;
                } else if (guess < numberToGuess) {
                    System.out.println("Too low. Try again.");
                } else if (guess > numberToGuess) {
                    System.out.println("Too high. Try again.");
                }
            }
            System.out.println("You got it in " + numberOfTries + "attempt(s)!");
        } catch (onlyinterger E) {
            System.out.println("exception caught");
        } catch (InputMismatchException E) {
            System.out.println("input mismatch only enter numeric values");
        } catch (Exception E) {
        }
    }
}
```

```
        System.out.println(E);
    } finally {
        System.out.println("thankyou for playing");
    }
}
```

OUTPUT :



The screenshot shows a Java IDE with a console window titled "Console x". The console output is as follows:

```
<terminated> GuessTheNumberGame [Java Application] C:\Program Files\Java\jdk-19
Guess a number from 1 to 50!
10
Too low. Try again.
Guess a number from 1 to 50!
20
Too low. Try again.
Guess a number from 1 to 50!
30
Too low. Try again.
Guess a number from 1 to 50!
40
Too high. Try again.
Guess a number from 1 to 50!
35
Too low. Try again.
Guess a number from 1 to 50!
36
Too low. Try again.
Guess a number from 1 to 50!
37
You got it in 7attempt(s)!
thankyou for playing
```