

# Numberguessinggame

```
import java.util.Scanner;

public class NumberGuessingGame {

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

        int minRange = 1;
        int maxRange = 100;
        int maxAttempts = 10;
        int score = 0;

        System.out.println("Welcome to the Number Guessing Game!");

        do {
            int targetNumber = generateRandomNumber(minRange, maxRange,
random);
            int attempts = 0;
            boolean guessedCorrectly = false;

            System.out.println("Guess a number between " + minRange + " and " +
maxRange);

            while (attempts < maxAttempts) {
                System.out.print("Enter your guess: ");
                int userGuess = scanner.nextInt();
                attempts++;

                if (userGuess == targetNumber) {
                    System.out.println("Congratulations! You guessed the correct
number in " + attempts + " attempts.");
                    guessedCorrectly = true;
                    break;
                } else if (userGuess < targetNumber) {
                    System.out.println("Too low. Try again.");
                } else {
                    System.out.println("Too high. Try again.");
                }
            }

            if (!guessedCorrectly) {
                System.out.println("Sorry! You've run out of attempts. The correct
number was: " + targetNumber);
            } else {
```

```
        score++;
    }

    System.out.print("Do you want to play again? (yes/no): ");
    String playAgain = scanner.next().toLowerCase();

    if (!playAgain.equals("yes")) {
        break;
    }

} while (true);

System.out.println("Game Over. Your score is: " + score);
scanner.close();
}

private static int generateRandomNumber(int min, int max, Random random)
{
    return random.nextInt(max - min + 1) + min;
}
}
```