



CODSOFT-TASK1 (NUMBER GAME)

1 message

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```
import java.util.Scanner; public class Main {

    public static void main(String[] args) {

        // Generate a random number between 1 and 100
        int randomNumber = (int) (Math.random() * 100) + 1;

        // Create a Scanner object to read user input
        Scanner scanner = new Scanner(System.in);

        // Start the game loop
        boolean guessedCorrectly = false;
        int numberOfAttempts = 0;
        System.out.println("Guess a number between 1 and 100: "
            + "\nSystem Generated Number is "+randomNumber);

        while (!guessedCorrectly && numberOfAttempts < 3)
        {
            // Prompt the user to guess a number

            // Get the user's guess
            int userGuess = scanner.nextInt();

            // Check if the user guessed correctly
            if (userGuess == randomNumber)
            {
                guessedCorrectly = true;
            }
            else
            {
                numberOfAttempts++;
                if (userGuess > randomNumber)
                {
                    System.out.println("Your guess is too high.");
                } else
                {
                    System.out.println("Your guess is too low.");
                }
            }
        }

        // Close the Scanner object
        scanner.close();

        // If the user guessed correctly, congratulate them. Otherwise, tell them the correct answer.
        if (guessedCorrectly)
        {
            System.out.println("Congratulations! You guessed correctly! The number was " + randomNumber);
        } else
        {
            System.out.println("Sorry, you ran out of guesses. The correct answer was " + randomNumber);
        }
    }
}
```