

NUMBER GAME

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

public class NumberGuessingGame {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        Random random = new Random();
        int min = 1;
        int max = 100;
        int attemptsAllowed = 10;
        int score = 0;
        boolean playAgain = true;

        while (playAgain) {
            int answer = random.nextInt(max - min + 1) + min;
            int attempts = 0;
            int guess = 0;

            while (guess != answer && attempts < attemptsAllowed) {
                System.out.print("Guess a number between " + min + " and " + max +
": ");

                guess = scanner.nextInt();
                attempts++;

                if (guess > answer) {
                    System.out.println("Too high, try again!");
                } else if (guess < answer) {
                    System.out.println("Too low, try again!");
                } else {
                    System.out.println("Congratulations! You guessed the number in
" + attempts + " attempts!");
                    score++;
                }
            }

            if (attempts == attemptsAllowed) {
                System.out.println("Sorry, you ran out of attempts. The number was
" + answer + ".");
            }

            System.out.print("Your score is " + score + ". Play again? (y/n) ");
            String playAgainResponse = scanner.next();
            playAgain = (playAgainResponse.equals("y"));
        }

        scanner.close();
    }
}
```