TASK - 1

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package tasks;
import java.util.Random;
import java.util.Scanner;
public class RandomNumberGuessingGames {
     public static void main(String[] args) {
                    Scanner scanner = new Scanner(System.in);
                    Random random = new Random();
                    int min = 1;
                    int max = 100;
                    int maxAttempts = 5;
                    int roundsWon = 0;
                    int totalRounds = 0;
                    boolean playAgain;
                    System.out.println("Welcome to the Number Guessing
Game!");
                    do {
                        // Generate a random number between min and max
(inclusive)
                        int randomNumber = random.nextInt((max - min) +
1) + min;
                        boolean guessedCorrectly = false;
                        totalRounds++;
                        System.out.println("Guess the number between " +
min + " and " + max + ":");
                        // Loop until the user guesses the correct number
or runs out of attempts
                        for (int attempts = 1; attempts <= maxAttempts;</pre>
attempts++) {
                            System.out.print("Attempt " + attempts + ":
");
                            int userGuess = scanner.nextInt();
                            // Check if the user's guess is correct, too
high, or too low
                            if (userGuess == randomNumber) {
                                System.out.println("Congratulations! You
quessed the correct number: " + randomNumber);
                                guessedCorrectly = true;
                                roundsWon++;
                                break;
                            } else if (userGuess < randomNumber) {</pre>
                                System.out.println("Too low! Try
again:");
                            } else {
                                System.out.println("Too high! Try
again:");
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}
                      if (!guessedCorrectly) {
                          System.out.println("Sorry, you've run out of
attempts. The correct number was: " + randomNumber);
                      // Ask if the user wants to play another round
                      System.out.print("Do you want to play another
round? (yes/no): ");
                      playAgain =
scanner.next().equalsIgnoreCase("yes");
                  } while (playAgain);
                  // Display the user's score
                  System.out.println("Game Over!");
                  System.out.println("Total Rounds Played: " +
totalRounds);
                  System.out.println("Rounds Won: " + roundsWon);
                  scanner.close();
              }
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