TASK 1 - NUMBER GAME

import java.util.Random;

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

Random random = new Random();

boolean playAgain = true;

int totalScore = 0;

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

while (playAgain) {

int numberToGuess = random.nextInt(100) + 1;

int attempts = 0;

int maxAttempts = 7;

boolean guessedCorrectly = false;

System.out.println("have selected a number between 1 and 100. Try to guess it!");

System.out.println("You have " + maxAttempts + " attempts.");

while (attempts < maxAttempts) {

System.out.print("Enter your guess: ");

int userGuess = scanner.nextInt();

attempts++;

if (userGuess == numberToGuess) {

System.out.println("Congratulations! You guessed the correct number in " + attempts + " attempts.");

guessedCorrectly = true;

totalScore += (maxAttempts - attempts + 1);

break;

} else if (userGuess < numberToGuess) {

System.out.println("Too low! Try again.");

} else {

System.out.println("Too high! Try again.");

}

System.out.println("Attempts left: " + (maxAttempts - attempts));

}

if (!guessedCorrectly) {

System.out.println("Sorry! You've used all attempts. The correct number was: " + numberToGuess);

}

System.out.print("\nDo you want to play again? (yes/no): ");

String response = scanner.next().toLowerCase();

playAgain = response.equals("yes");

}

System.out.println("Game Over! Your final score is: " + totalScore);

scanner.close();

}

}