import java.util.Random;

import java.util.Scanner;

public class GuessTheNumberGame {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

Random random = new Random();

int minRange = 1;

int maxRange = 100;

int attemptsLimit = 5;

int score = 0;

System.out.println("Welcome to the Guess the Number game!");

boolean playAgain = true;

while (playAgain) {

System.out.println("You have " + attemptsLimit + " attempts to guess the number between "

+ minRange + " and " + maxRange);

int generatedNumber = random.nextInt(maxRange - minRange + 1) + minRange;

int attempts = 0;

boolean guessedCorrectly = false;

while (attempts < attemptsLimit && !guessedCorrectly) {

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

int guess = scanner.nextInt();

attempts++;

if (guess == generatedNumber) {

System.out.println("Congratulations! You've guessed the number (" + generatedNumber + ") correctly in " + attempts + " attempts.");

score += attemptsLimit - attempts + 1; // Incrementing score based on remaining attempts

guessedCorrectly = true;

} else if (guess < generatedNumber) {

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: " + generatedNumber);

}

System.out.print("Would you like to play again? (yes/no): ");

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

playAgain = playAgainResponse.equals("yes") || playAgainResponse.equals("y");

}

System.out.println("Your final score: " + score);

scanner.close();

    }

}