import java.util.Random;

import java.util.Scanner;

public class GuessTheNumber {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

Random random = new Random();

int lowerBound = 1;

int upperBound = 100;

int maxAttempts = 5;

int totalScore = 0;

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

System.out.println("You have " + maxAttempts + " attempts to guess the number between " + lowerBound + " and " + upperBound + ".");

while (true) {

int targetNumber = random.nextInt(upperBound - lowerBound + 1) + lowerBound;

int attempts = 0;

while (attempts < maxAttempts) {

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

try {

int userGuess = scanner.nextInt();

scanner.nextLine(); // Consume the newline character

if (userGuess < lowerBound || userGuess > upperBound) {

System.out.println("Please enter a number between " + lowerBound + " and " + upperBound + ".");

} else if (userGuess == targetNumber) {

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

totalScore += (maxAttempts - attempts); // Award points based on the number of attempts left

break;

} else {

System.out.println("Wrong guess. The number is " + (userGuess < targetNumber ? "higher" : "lower") + " than your guess.");

attempts++;

if (attempts == maxAttempts) {

System.out.println("You've run out of attempts. The correct number was: " + targetNumber);

} else {

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

}

}

} catch (java.util.InputMismatchException e) {

System.out.println("Please enter a valid integer.");

scanner.nextLine(); // Consume the invalid input and newline character

}

}

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

String playAgain = scanner.nextLine().toLowerCase();

if (!playAgain.equals("yes")) {

break;

}

}

System.out.println("Thanks for playing! Your total score is: " + totalScore);

scanner.close();

}

}