import java.util.Random;

import java.util.Scanner;

public class NumberGuessingGame {

private static final int LOWER\_BOUND = 1;

private static final int UPPER\_BOUND = 100;

private static final int MAX\_TRIES = 10;

public static void main(String[] args) {

Scanner input = new Scanner(System.in);

System.out.println("Welcome to the Number Guessing Game! Try to guess the number between " + LOWER\_BOUND + " and " + UPPER\_BOUND + ".");

int totalScore = 0;

int gamesPlayed = 0;

String continuePlaying = "yes";

while (continuePlaying.equalsIgnoreCase("yes")) {

gamesPlayed++;

System.out.println("Game " + gamesPlayed);

int tries = playRound(input);

if (tries <= MAX\_TRIES) {

totalScore += (MAX\_TRIES - tries + 1);

}

System.out.println("Current score: " + totalScore);

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

continuePlaying = input.next();

}

System.out.println("Thanks for playing! You participated in " + gamesPlayed + " games and scored a total of " + totalScore + ".");

input.close();

}

private static int playRound(Scanner input) {

int targetNumber = generateRandomNumber(LOWER\_BOUND, UPPER\_BOUND);

int numberOfTries = 0;

while (numberOfTries < MAX\_TRIES) {

int userGuess = getUserGuess(input);

numberOfTries++;

String result = evaluateGuess(userGuess, targetNumber);

System.out.println(result);

if (result.equals("You guessed it right!")) {

return numberOfTries;

}

}

System.out.println("Out of tries! The number was " + targetNumber + ".");

return MAX\_TRIES + 1;

}

private static int generateRandomNumber(int lowerBound, int upperBound) {

Random random = new Random();

return random.nextInt(upperBound - lowerBound + 1) + lowerBound;

}

private static int getUserGuess(Scanner input) {

while (true) {

try {

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

return Integer.parseInt(input.next());

} catch (NumberFormatException e) {

System.out.println("That's not a number. Please enter a valid integer.");

}

}

}

private static String evaluateGuess(int guess, int targetNumber) {

if (guess < targetNumber) {

return "Too low!";

} else if (guess > targetNumber) {

return "Too high!";

} else {

return "You guessed it right!";

}

}

}