import java.util.Random;

import java.util.Scanner;

public class NumberGuessingGame {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

Random random = new Random();

int totalRounds = 0;

int roundsWon = 0;

boolean playAgain = true;

while (playAgain) {

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

int maxAttempts = 5;

int attempts = 0;

boolean guessedCorrectly = false;

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

System.out.println("Try to guess the number between 1 and 100.");

while (attempts < maxAttempts && !guessedCorrectly) {

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

int userGuess = scanner.nextInt();

attempts++;

if (userGuess == generatedNumber) {

guessedCorrectly = true;

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

} else if (userGuess < generatedNumber) {

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

} else {

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

}

}

if (guessedCorrectly) {

roundsWon++;

System.out.println("You won this round!");

} else {

System.out.println("Sorry, you've reached the maximum number of attempts. The correct number was: " + generatedNumber);

}

totalRounds++;

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

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

playAgain = playAgainInput.equals("yes");

}

System.out.println("Thanks for playing! Your final score: Rounds Won: " + roundsWon + " out of " + totalRounds);

scanner.close();

}

}