import java.util.Random;

import java.text.DecimalFormat;

import java.util.Scanner;

public class ReplyGenerator {

public static void main(String[] args) {

Scanner keyboard = new Scanner(System.in);

Random randomNumber = new Random();

System.out.print("Enter a sentence: ");

String sentence = keyboard.nextLine();

char lastCharacter = sentence.charAt(sentence.length() - 1);

if (lastCharacter == '?' && sentence.length() % 2 == 0)

{ System.out.print("Yes"); }

else if (lastCharacter == '?' && sentence.length() % 2 != 0)

{ System.out.print("No"); }

else if (lastCharacter == '!')

{ System.out.print("Wow"); }

else

{ System.out.print("You always say \"" + sentence + "\""); }

int key = 0;

switch (key + 1)

{case 1:

System.out.println("Apples");

break;

case 2:

System.out.println("Oranges");

break;

case 3:

System.out.println("Peaches");

break;

case 4:

System.out.println("Plums");

break;

default:

System.out.println("Fruitless"); }

String answer;

do {

System.out.println("Enter a score: ");

score = keyboard.nextInt();

keyboard.nextLine();

count++;

sum+= score;

System.out.println("Do you want to enter another score? (Say \"yes\" to continue)");

answer = keyboard.nextLine();

} while (answer.equalsIgnoreCase("yes"));

if (count > 0) {

System.out.println("The average of " + count + " scores is " + sum/count); }

else {

System.out.println("No scores entered."); }

while (score >= 0) {

count++;

sum += score; //sum = sum + score

System.out.println("Enter a score: ");

score = keyboard.nextInt(); }

for (int i = 0; i < 20; i++) {

int num = randomNumber.nextInt(11) + 10;

System.out.println(num); }

System.out.println("What is your first and last name? ");

String firstName = keyboard.next();

String lastName = keyboard.next();

int firstNameLength = firstName.length();

int lastNameLength = lastName.length();

String ferbLatin = "erb";

String letterOne = firstName.substring(0, 1);

String letterTwo = firstName.substring(1, 2);

String newFirstName = firstName.substring(2, firstNameLength);

String letterThree = lastName.substring(0, 1);

String letterFour = lastName.substring(1, 2);

String newLastName = lastName.substring(2, lastNameLength);

if (firstName.length() >= 3)

{ System.out.print("Your name in Ferb Latin is: " + letterTwo.toUpperCase() + newFirstName + letterOne.toLowerCase() + ferbLatin); }

Else {

System.out.print("Your name in Ferb Latin is: " + firstName); }

if (lastName.length() >= 3)

{ System.out.print(" " + letterFour.toUpperCase() + newLastName + letterThree.toLowerCase() + ferbLatin); }

Else {

System.out.print(" " + lastName); }

System.out.println("What city are you leaving from?");

String cityFrom = keyboard.next();

System.out.println("What city are you going to?");

String cityTo = keyboard.next();

int cityFromNameLength = cityFrom.length();

int cityToNameLength = cityTo.length();

String cityFromFirstLetter = cityFrom.substring(0, 1);

String cityToFirstLetter = cityTo.substring(0, 1);

String cityFromPartialName = cityFrom.substring(1, cityFromNameLength);

String cityToPartialName = cityTo.substring(1, cityToNameLength);

/\* cityStart and cityFinish are variables used to simplify future output within the

program to make sure index '0' is upper case and the indexes > '0' are lower case\*/

String cityStart = cityFromFirstLetter.toUpperCase() + cityFromPartialName.toLowerCase();

String cityFinish = cityToFirstLetter.toUpperCase() + cityToPartialName.toLowerCase();

System.out.println("How many miles is it from " + cityStart + " to " + cityFinish + "?");

int milesToDrive = keyboard.nextInt();

System.out.println("How many miles per gallon does your car get?");

double milesPerGallon = keyboard.nextDouble();

System.out.println("How many gallons does your car's gas tank hold?");

double gasTank = keyboard.nextDouble();

double gasTripTotal = milesToDrive / milesPerGallon;

int timesGasTankFilled = (int)gasTripTotal / (int)gasTank;

DecimalFormat myFormatter = new DecimalFormat ("0.0");

System.out.println("\nYour trip from " + cityStart + " to " + cityFinish + " will require " + myFormatter.format(gasTripTotal) + " gallons of gas.");

System.out.println("Assuming your gas tank is full when you leave, then you will need to stop to fill up " + timesGasTankFilled + " times.");