***Programming Assignment Lab04A***

Write a program to enter a list of numbers and print the following statistics: Enter numbers until 999 is entered. Do not include 999 in the statistics. Use a ***while*** loop. (numbers will be ints which are positive and negative)

Count

Highest

How to round to 2 decimals: (trailing zeros will not show up)

double numRound = (int)((num+.005)\*100)/100.0;

Lowest

Total

Average

Number of even

Number of odd

For the following numbers **(8,9,12,5,2,10,25,64,4,8,999),** you should get these results: Round average to 2 decimals. (trailing zeros will not show)



My Number Statistic Program

by: your name here

COUNT HIGH LOW TOTAL AVERAGE #EVENS #ODDS



===== ==== === ===== ======= ====== =====

10 64 2 147 14.7 7 3



Try this with many sets of numbers to make sure it works.

Sample:

Enter a number: 1  
Enter another number: -1  
Enter another number: 4  
Enter another number: 999  
COUNT HIGH LOW TOTAL AVERAGE #EVENS #ODDS  
===== ==== === ===== ======= ====== =====  
3 4 -1 4 1.33 1 2



***Programming Assignment Lab04B***

Ask the user to enter a sports team.

Have the program print out:

* the sports team… printed vertically…one character at a time (for-loop)
* the length of their sports team…including spaces (indicate whether odd/even)
* a random letter in the sports team
* the last four characters in sports team
* the first four characters in sports team
* the middle three characters in sports team
  + if sports team length is odd get middle three
  + if sports team length is even get "first" middle three
    - example: Ursuline (middle 3 = "sul")
* every other letter in sports team…beginning with the first letter (for-loop)
* every other letter in sports team…beginning with the second letter (for-loop)
* reversed sports team (for-loop)
* ask the user to enter a letter
  + display how many times the letter occurs (for-loop)
  + if 1 time, print singular value
* print the team name in a "box" using a variety of loops

Example#1

MM«M ----jGRASP exec: java Lab04B  
¼¼§MEnter a sports team: Ursuline Bears  
MM§MU  
MM§Mr  
MM§Ms  
MM§Mu  
MM§Ml  
MM§Mi  
MM§Mn  
MM§Me  
MM§M   
MM§MB  
MM§Me  
MM§Ma  
MM§Mr  
MM§Ms  
MM§M  
MM§M  
MM§MLength: 14 characters is even  
MM§MRandom letter: character #1 is a "r"  
MM§MThe first 4 characters are: Ursu  
MM§MThe last 4 characters are : ears  
MM§MMiddle 3 characters are: ine  
MM§MEvery other letter from first letter: Usln er  
MM§MEvery other letter from second letter: ruieBas  
MM§MReversed name: sraeB enilusrU  
MM§M  
¼¼§MEnter a letter: s  
MM§MThe letter "s" occurs 2 times  
MM§M  
MM§M\*\*\*\*\* BOX TEAM \*\*\*\*\*\*  
MM§M  
MM§MUrsuline Bears  
MM§Mr r  
MM§Ms a  
MM§Mu e  
MM§Ml B  
MM§Mi   
MM§Mn e  
MM§Me n  
MM§M i  
MM§MB l  
MM§Me u  
MM§Ma s  
MM§Mr r  
MM§MsraeB enilusrU  
MM©M ----jGRASP: operation complete.Example#2

¼¼§MEnter a sports team: Texas Rangers  
MM§MT  
MM§Me  
MM§Mx  
MM§Ma  
MM§Ms  
MM§M   
MM§MR  
MM§Ma  
MM§Mn  
MM§Mg  
MM§Me  
MM§Mr  
MM§Ms  
MM§M  
MM§M  
MM§MLength: 13 characters is odd  
MM§MRandom letter: character #4 is a "s"  
MM§MThe first 4 characters are: Texa  
MM§MThe last 4 characters are : gers  
MM§MMiddle 3 characters are: Ra  
MM§MEvery other letter from first letter: TxsRnes  
MM§MEvery other letter from second letter: ea agr  
MM§MReversed name: sregnaR saxeT  
MM§M  
¼¼§MEnter a letter: x  
MM§MThe letter "x" occurs 1 time  
MM§M  
MM§M\*\*\*\*\* BOX TEAM \*\*\*\*\*\*  
MM§M  
MM§MTexas Rangers  
MM§Me r  
MM§Mx e  
MM§Ma g  
MM§Ms n  
MM§M a  
MM§MR R  
MM§Ma   
MM§Mn s  
MM§Mg a  
MM§Me x  
MM§Mr e  
MM§MsregnaR saxeT  
MM©M ----jGRASP: operation complete.