**SentenceMenu**

**This program reads a sentence from the user, it then displays a menu for different tasks.**

**-MAIN -**

(Define Terms)

* 1. Let input to be the user input.

**START**

1. Read input 🡨 user input sentence.
2. Print (“menu”)
3. Repeat while (action != 6)
   1. Read action
   2. If (action ==1) then
      1. Call wordCounter method.
   3. If (action ==2) then
      1. Call vowelCounter method.
   4. If (action ==3) then
      1. Call longestWord method.
   5. If (action ==4) then
      1. Call mostVowel method.
   6. If (action ==5) then
      1. Call newStatement method.
   7. If (action ==6) then
      1. Terminate the program.
   8. Print (“menu”)

**END**

**-(1)wordCounter method-**

**START**

1. Read str 🡨 user input sentence.
2. Set count 🡨 0;
3. Set i 🡨 0;
4. Repeat while (i <= str.length)
   1. if (str.charAt(i)== ‘ ‘) && (str.charAt(i +1)!=’ ‘) then
      1. count = count + 1;
5. count = count + 1;
6. Print (“There are + count + words in + str “)

**END**

**-(2)vowelCounter method-**

**START**

1. Read str 🡨 user input sentence
2. Set aCount 🡨 0, eCount 🡨 0, iCount 🡨 0, oCount 🡨 0, uCount 🡨 0;
3. Set i 🡨 0
4. Repeat while ( i <= str.length)
   1. if (str.charAt(i) = ‘a’) then
      1. aCount = aCount + 1;
   2. else if (str.charAt(i) = ‘e’) then
      1. eCount = eCount + 1;
   3. else if (str.charAt(i) = ‘i’) then
      1. iCount = iCount + 1;
   4. else if (str.charAt(i) = ‘o’) then
      1. oCount = oCount + 1;
   5. else if (str.charAt(i) = ‘u’) then
      1. uCount = uCount + 1;
   6. else
      1. continue;
5. Print (“There are + aCount + a’s + eCount + e’s + iCount + i’s + oCount + o’s + uCount + u’s + in + str”);

**END**

**-(3)longestWord method-**

**START**

1. Read str 🡨 user input sentence
2. Set max 🡨 0;
3. Set i 🡨 0;
4. Repeat while (i <= str.length)
   1. if (str.charAt(i) != ‘ ‘) then
      1. Set word = word + str.charAt(i)
   2. if (str.charAt(i) == ’ ‘)||(i == str.length - 1) then
      1. Set n = word.length
      2. if (n>max) then
         1. Set max = n;
         2. Set longest = word;
      3. Set word = null;
5. Print (“The longest word is + longest “)

**END**

**-(4)mostVowel method-**

**START**

1. Read str 🡨 user input sentence.
2. Set max 🡨 0;
3. Set i 🡨 0;
4. Set count 🡨0;
5. Repeat while (i <= str.length)
   1. if (str.charAt(i) != ‘ ‘) then
      1. Set word = word + str.charAt(i)
      2. if (str.charAt(i) == vowel) then
         1. Set count = count + 1
   2. if (str.charAt(i) == ’ ‘ ) && (str.charAt(i+1) != ‘ ‘)then
      1. if (count>max)
         1. Set max = count;
         2. Set mostV= word;
      2. Set word = null;
      3. Set count = 0;
6. Print (“The word with the most vowels is: + mostV “)

**END**

**-(5)newStatement method-**

(Define Terms)

* 1. Let newS to be the user input.

**START**

1. Read str 🡨 user input sentence.
2. Print (“Please enter a new statement”)
3. Read newS 🡨 new user input sentence
4. return news;

**END**