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\* Unit 4 Activity 1 Program/Question 1

\* This program will ask the user to input a phrase and it will show them the number of vowels their phrase contains, it will also restart based on the user input at the end.

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import java.io.BufferedReader;

import java.io.IOException;

import java.io.InputStreamReader;

public class CountVowels

{

public static void main(String[] args) throws IOException

{

//Starts the first loop (without it, will not run)

int restart = 1;

while (restart == 1)

{

//Variable Declarations and Initializations

String phrase;

int vowelCount = 0;

char vowel[] = new char[5];

vowel[0] = 'a';

vowel[1] = 'e';

vowel[2] = 'i';

vowel[3] = 'o';

vowel[4] = 'u';

BufferedReader input = new BufferedReader(new InputStreamReader (System.in));

System.out.println("Count Vowels\n===========");

System.out.println("Type a sentence and this program will tell you\nhow many vowels there are (excluding 'y'):\n");

phrase = input.readLine().toLowerCase();

for (int i = 0; i != phrase.length(); i++)

{

for (int eachVowel = 0; eachVowel < 5; eachVowel++)

{

if(vowel[eachVowel] == phrase.charAt(i))

{

vowelCount += 1;

}//end if

}//end loop

}//end loop

System.out.println("There are " + vowelCount + " vowel(s) in the phrase you've entered.\n");

System.out.println("Press 1 to try a new phrase or press any other number to exit.");

restart = Integer.parseInt(input.readLine());

}//end while

}//end main

}//end class