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//*****
// Assignment: J6A4 Using String Methods
//
// Description: lets you enter a word and that prints out the
//              number of vowels and the number of consonants
//
// Author: Darshil Patel
//
// Date Start: Dec 13, 2016
// Date Completed: Dec 13, 2016
//
// Completion time: 20 mins
//
// Honor Code: I pledge that this program represents my own
//              program code. I received help from no one in designing
//              and debugging my program.
//*****

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import java.util.*;
public class J6A4PatelDarshil
{
    public static void main (String[] args)
    {
        // variable init
        String userInput;
        boolean programState = false;
        String endProgram = "Stop";
        int vowelCounter = 0;
        int constantCounter = 0;

        // runs until "stop" is inputted
        while(!programState){
            System.out.println("Enter a word");
            Scanner input = new Scanner(System.in);
            userInput = input.nextLine().toString();

            // Checks for stop, to end program
            boolean endCheck = endProgram.equalsIgnoreCase(userInput);

            //ends program if input is "end"
            if(endCheck){
                System.out.println("Hello");
                programState = true;
            }
            else{

```

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//checks each character if it is a vowel
for(int i=0;i <userInput.length();i++){
    if((userInput.charAt(i) == 'a') ||
        (userInput.charAt(i) == 'e') ||
        (userInput.charAt(i) == 'i') ||
        (userInput.charAt(i) == 'o') ||
        (userInput.charAt(i) == 'u'))
    {
        vowelCounter++;
    }
}

// takes number of vowels and subtracts it from the total
string length to get Constants
constantCounter = userInput.length() - vowelCounter;
System.out.println(vowelCounter + "Vowels and " +
constantCounter + "Constants");
vowelCounter = 0;
}

}

}

```