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1. Write a program called CountVowelsDigits, which prompts the user for a String, counts the number of vowels (a, e, i, o, u, A, E, I, O, U) and digits (0-9) contained in the string, and prints the counts and the percentages (rounded to 2 decimal places).

Main.java

Run

```
1   import java.util.Locale;
2   import java.util.Scanner;
3
4
5   public class CountVowelsDigits {
6
7   public static void main(String args[]){
8
9   int countVowels=0,
10     countDigits=0;
11
12   Scanner scan=new Scanner(System.in);
13   System.out.println("Enter a String \n");
14
15
16
17     String myString = scan.nextLine();
18       int strLength = myString.length();
19
20
21       for(int i = 0; i < strLength; i++) {
22          char currentChar = Character.toLowerCase(myString.charAt(i));
23
24       if(currentChar == 'a'|| currentChar == 'e'|| currentChar == 'i'|| currentChar == 'o'||
             currentChar == 'u') {
25
26       countVowels++; //--vOWELS--//
27    }
28
29       else if(currentChar >= '0' && currentChar <= '9') {  //--DIGITS--//
30             countDigits++;
31
32    }
33  }
34
35
36       System.out.println("String Yoe Entered: "+ myString);
```

Output

```
java -cp /tmp/CNDsfqBtwF CountVowelsDigits
Enter a String
testing12345
String Yoe Entered: testing12345
Num of vowels: 2 (16.67%)
Num of digits: 5 (41.67%)
```

```
37
38          System.out.println("Num of vowels: " + countVowels + " ("
39
40       + String.format(Locale.ROOT, "%.2f", countVowels*100.0/strLength) + "%)");
41
42          System.out.println("Num of digits: " + countDigits + " ("
43
44         + String.format(Locale.ROOT, "%.2f", countDigits*100.0/strLength) + "%)");
45
46      }
47  }
```