Assignment # 2

1. Write a program that ask the user to enter string and display the number of characters then the number of vowels (a, e, i, o, or u) that the string contains.

For example, the user enters ("kookaburra") the program should display:

The number of characters is: 10

The number of vowels is: 5

1. Write a program that asks the user to enter a password. If the password equal to “[spaetzle](https://www.google.ca/search?rlz=1C1CHBF_enCA690CA690&biw=1093&bih=510&q=spaetzle&spell=1&sa=X&ved=0ahUKEwiJ0uqYnZHSAhWV2YMKHWVqCA4QBQgXKAA)@”, display the following message: “ the password is accepted” otherwise the program displays “invalid password”

For example:

If the password is valid:

Please enter the password: [spaetzle](https://www.google.ca/search?rlz=1C1CHBF_enCA690CA690&biw=1093&bih=510&q=spaetzle&spell=1&sa=X&ved=0ahUKEwiJ0uqYnZHSAhWV2YMKHWVqCA4QBQgXKAA)@

the password is accepted

If the password is invalid

Please enter the password: [spaetzle](https://www.google.ca/search?rlz=1C1CHBF_enCA690CA690&biw=1093&bih=510&q=spaetzle&spell=1&sa=X&ved=0ahUKEwiJ0uqYnZHSAhWV2YMKHWVqCA4QBQgXKAA)

Invalid password

You MUST submit 2 .java files without compression or copy past you code inside text box (don’t use winzip and winrar)

# **Evaluation**

Your submission will be evaluated based on the following criteria:

**Efficient Code**: Program doesn’t use too much repetitive code (e.g. uses methods instead of copy/pasting code). Program uses variables where and only when necessary; program doesn't define variables that are never used, nor does it use too many variables for unnecessary tasks.

Program logic is written concisely and is not cluttered with unnecessary tasks.

**Functionality:** Program functions according to specifications.

**Programming Style:** Proper indentation and spacing, use of comments/documentation; all identifiers are descriptive and follow our coding conventions; variables are defined with appropriate types and converted when required.

Good organization and clarity of written communication.

**Other:** All instructions regarding submissions and program specifications have been followed; submission was completed and submitted as requested in a timely fashion.