CTU training solutions

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Question 1

A company has hired you to develop an application to generate passwords for their employees' accounts. The application prompts the user to provide one single line of text with an employee's full name in the following format "forename surname" at a time. (Please note that you are not required to validate the input, we assume that the input is well-formed.) Next, the application uses the given full name to create the corresponding item. Note that the application should work irrespective of how the user provides the full name i.e. using upper-case letters, lower-case letters, or a combination of both upper-case and lower-case letters. You should use the full name as provided i.e. you should not modify the given full name to a different letter case.

The password is created using the following rules:

• **The letters 'a', 'e', and 't' from the given full name will not be used in the password**

```
char lowercaseChar = char.ToLower(c);
        if (lowercaseChar == 'a' || lowercaseChar == 'e' || lowercaseChar == 't')
```

• **Each vowel (except 'a' and 'e' which are eliminated) is going to be added twice**

```
else if (vowels.Contains(lowercaseChar))
        {

           password += c;
           password += c;
        }
```

• **Each space is replaced by the letter 'S' followed by a '&' and a '?**'

```
else if (char.IsWhiteSpace(c))
        {

           password += "S&?";
        }
```

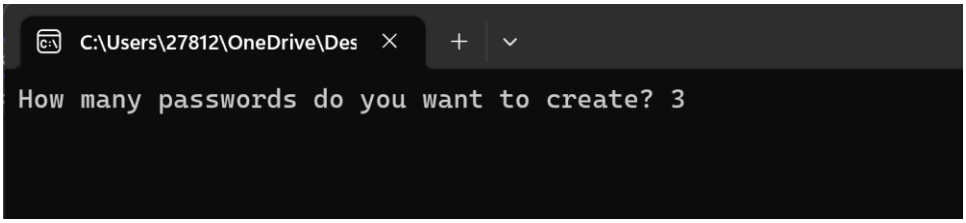
• **All the other characters will remain the same as in the given full name**

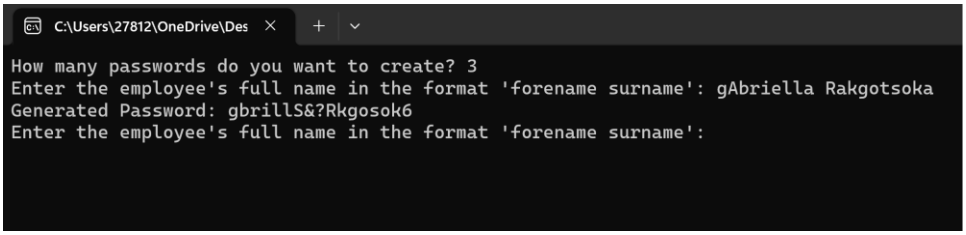
```
password += eliminatedCount;
```

• **The password ends with the total number of letters eliminated (i.e. the total number of letters 'a', 'e', and 't' from the given full name that were not used in the password)**

password += eliminatedCount;

Output





Completed Declaration of Authenticity

I Gabriella Rakgotsoka _ hereby

(FULL NAME)

declare that the contents of this assignment PRG521_FA4 is entirely my own work except for the following documents: (List the documents and page numbers of work in this portfolio
that were generated in a group)

Activity	Date
Formative Assessment 4	2023/10/16

Signature: Date: 2023/10/16