

Programming Assignment 2

Objectives:

- Practice while loops and for loops
- **DON'T USE ANYTHING WE HAVEN'T COVERED IN CLASS!**

Assignment:

In this assignment, you are going to write a program that creates a password for the user. First, ask the user to enter 2 or more words. If they don't enter at least 2 words, display an error message and have them enter it again. They can make any number of errors. Then, using a **for loop**, create a password from the user's input using the following scheme:

Original Character	New Character
space	?
A/a	0
E/e	1
I/i	2
O/o	3
U/u	4
R/r	*
S/s	@
T/t	&

For instance, if the user enters **October First** the password created is **3c&3b1*?F2*@&**

Finally, display the password to the user.

Test Cases

As you write your program, you will need to test it, especially your decision structures. Download the Test Cases file from Moodle and fill in each row with the results of the tests in the file. It doesn't matter if the test is successful or not; the point is to document the testing process.

Sample Executions:

- You will design your own output format.
 - It must be easy to read/understand.
 - It should include whitespace.
 - It should be consistent.

Requirements:

- Use an updated comment block
- Your program should use the following comment block at the very beginning of your program.

```
# Name: Your name          Date Assigned: Fill in
#
# Course: 2000-Sec #       Date Due: Fill in
#
# File name: Fill in
#
# Program Description: Brief description of what the program does.
```

- Use appropriate comments throughout the program
- Make good use of whitespace
- Output must be neat, logical, and easy to understand.

Deliverables:

- Upload the file that has your source code to Moodle with the extension .py. The file should be from **script** mode, NOT interactive mode. Upload the Excel file with your Test Cases.

Grading:

Total Points	10 points
Gets words from user	0.5 point
Input validation: must be at least 2 words	2 point
Uses for loop when creating the password	1 point
Modifies spaces correctly	0.5 point
Modifies vowels correctly	2 points
Modifies consonants correctly	1.5 point
Only modifies spaces, vowels, and the given consonants	1 point
Displays password	0.5 point
Test Cases	1 point
Not enough comments/whitespace.	-1 point
Output is difficult to read / understand or messy.	-1 point
Doesn't have good variable names.	-1 point