

## Lab 11 – File Input/Output

*SUBMIT original code in Python to solve the problem below.*

*Please be aware that copying and pasting code from any other source other than code you have explicitly written on your own is considered plagiarism. If you receive help, that is fine (document help in the comments of your code) however you need to write your own code, name your own variables, and comment your own code. Students turning in the exact same work as another student will all be given zeros. Plagiarism is not tolerated, and students found to be plagiarizing will be given a zero and reported to the University with the possibility of termination of the class and degree program.*

For this lab, you will write a Python program that will create and edit a text file called `users.txt`. The file should be created in the same folder as your python file and will contain a list of usernames, with one name per line.

Your program should **only** define and implement the following functions:

- `create_file` – Accepts no arguments and creates the empty file called `users.txt`
- `add_user` – Accepts a username as an argument and appends it to the file
- `update_user` – Accepts an old username and a new username as separate arguments and replaces any instance of that the old username with the new username in the file.
- `remove_user` – Accepts a username as an argument and removes the user from the file

Save your program as `Lab11.py` and upload just your source file to the appropriate dropbox in GradeScope, **NOT D2L!**

**(optional)**

You may copy and paste the following code into a separate Python file to test your Lab11.py. If copying from Word, you may need to fix the quotation marks to prevent syntax errors. Do not include it in your Lab11.py

```
import Lab11
Lab11.create_file()
Lab11.add_user("bob")
Lab11.add_user("joe")
Lab11.add_user("ann")
Lab11.add_user("mike")

Lab11.update_user("joe", "jo")

Lab11.remove_user("ann")
```

Your final file should look like:

```
bob
jo
mike
```

## REMEMBER

- Include the comment heading at the top of your code.
  - # Program Name: Lab1.py (use the name the program is saved as)
  - # Course: IT1114/Section XXX
  - # Student Name: John Doe
  - # Assignment Number: Lab#
  - # Due Date: xx/xx/ 20XX
  - # Purpose: What does the program do (in a few sentences)?
  - # List specific resources used to complete the assignment.
- Place comments within your code explaining the programming segments