

CS 115 - Introduction to Programming in Python

Lab Guide 04

Lab Objectives: Files and Modules

1. Create a module, `lab04_module.py`. In the module, define 2 functions:
 - a. `generate_password`: Takes a username as a password, and returns a password that has been generated according to the following. The first 4 characters of each password should be randomly selected characters from the user name. You should also randomly capitalize the characters to be added. The last 4 characters should be random digits between 0 and 9.
 - b. `write_passwords`: takes an input file name and an output file name as parameters, and generates a password for each user in the input file and writes the `username:password` to the output file given.
2. Write a program that inputs the input and output file names from the user, and generates passwords and writes to the file using the functions defined in the module.

3. In module, `lab04_module.py`, write a function, `generate_password()` to generate the random passwords according to the format defined below.

Passwords:

The first 4 characters of each password should be randomly selected characters from the user name. You should also randomly capitalize the characters to be added. The last 4 characters should be random digits between 0 and 9.

Write a program that reads user names from the file `users.txt`. Your program should generate a password for each user using the function defined in the module, and write the user name and password to the file `passwords.txt`.