

Laboratory Exercise #2

File Handling

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Section: **BSCPE 1-5**

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Instructions:

Create a Python program that does the following (100 pts), refer to lab2_file_handling.py and complete the program:

1. Reads a CSV file called **BSCPE1-5.csv**.
2. Extract your own data from the file (e.g. 2024-01111-MN-0,DELA CRUZ,JUAN,SANTOS,CMPE 103,BSCPE 1-9,juandelacruz@gmail.com,Online,)
3. If you are working as a pair or three-member group, extract all the data of your members from the CSV file.
4. Parse the information from the extracted data and write it to a new file called **output_<surname>.txt** following the below format. If you are working as a pair or three-member group, do the data extraction for each member but only write to a single output file:
 - a. Full name: First name Middle initial. Last name (e.g. Jerico I. Sarcillo)
 - b. Student number:
 - c. Email address:
5. Close the CSV file and the **output_<surname>.txt** file (only if you are not using 'with')
6. Read the **cool_man.txt**
7. Open the **output_<surname>.txt** file with append permission.
8. Append all the data from **cool_man.txt** to **output.txt**.
9. Close the **output_<surname>.txt** and **cool_man.txt** files. (only if you are not using 'with')
10. Return the name of the output file.

Bonus item (+20 pts):

Modify your program so it can do the following:

1. Search which line/s in the CSV file contains the following information:
 - a. The surname starts with letter 'S' and ends in letter 'O'
 - b. The first name starts with letter 'J' and ends in letter 'O'
2. Use this regex pattern to look for that specific line: **,S\w+O,J\w+O**
3. Append the line number where you found this information and the entire data in the **output_<surname>.txt** file.

Example output: **Found at line 34: 2023-01789-MN-0,SERRANO,JOJO,REYES,CMPE
103,BSCPE 1-1,jojoserrano@gmail.com,Online,**