**Laboratory Exercise #2**

**File Handling**

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Section: ***BSCPE 1-5***

Date: ***March 20, 2025***

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:
   1. Full name: First name Middle initial. Last name (e.g. Jerico I. Sarcillo)
   2. Student number:
   3. 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:
   1. The surname starts with letter ‘S’ and ends in letter ‘O’
   2. 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,**