SECTION C
Weekly Journal

Instruction to Student:

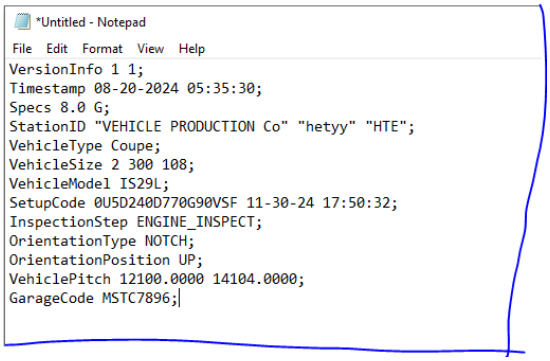
1. On a daily basis, record the specific task that you carried out for that day.
2. At the end of every week, describe one task in more details with diagrams or photos attached.

Week : 11 Date from: 20/5/2024 to 24/5/2024

Department/Section Attached: Assembly Metrology

Day	Tasks Record
Monday	• Programmed a python automation for file conversion from a 001 to CSV file with proper headers and data. • Programmed tracking of files in the folder with proper filtering of file type, file name and others
Tuesday	• With converted data files, experimented on tableau desktop, creating new graphs and data fields. • Created a simple heatmap and bar graphs but more learning required to create more complex data representation.
Wednesday	• Vesak Day
Thursday	• Continued working on my Internship Report • Had a discussion with an engineer to decide which data fields are essential for analysis. • Adjusted the previous code to include data addition and further processing to reduce memory load on tableau, ensuring quicker and optimized use.
Friday	• Ran the automated file conversion for the first time into the network folder. • Created a simple Tableau Dashboard for data analysis. • Improved automation script to filter duplicate data and ensure a row of data for each x-y index. ○ The 001 file only contains defects information, hence additional processes needed to fill up empty indexes. • Raised a request to pair the network folder path to the Micron Tableau server for live or data extraction on the server instead of on the local computer/machine

Describe one task in more details with diagrams or photos attached.
Explain the importance/relevance of this task to the company.



Before the data analysis and graphical representations, the data was displayed raw, in the format uploaded from the inspection machine, as shown above the information is not in any table form and there are multiple essential fields within the same line, hence a line separator could not simply divide the information into the desired columns and rows. Hence, I had to program a code to divide each line multiple time and save the information to be written to each line of code. Additionally, some of the information is provided in numerical value, hence would require additional conversion to change each numerical value to its appropriate categorical information.

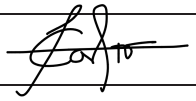
Afterwards, I programmed an event handler to detect the existence and uploading of newer files into the tracked folder. This would automate the conversion of the raw machine data into usable csv files for further processing and use by the engineers.
Furthermore, this would make the data more readable and easier to understand by new engineers, reducing time spent analyzing the data.

Assessment on Student

Grading Scheme :

A (Excellent)	-	Consistently exhibit qualities beyond expectation and norms.
B+ (Very Good)	-	Exhibit qualities above expectation and the norms.
B (Good)	-	Exhibit qualities which are considered necessary to produce good quality work.
C+ (Good Credit)	-	Exhibit good qualities which are the norm.
C (Credit)	-	Exhibit acceptable qualities which are the norm.
D (Pass)	-	Exhibit qualities which varies between the norm and unacceptable standard.
F (Fail)	-	Exhibit qualities which are not acceptable and are hindrances to operations.

Conduct:	Average	Attendance: Average	* Regular / Average / Poor
Performance :	Satisfactory	Punctuality: Satisfactory	* Satisfactory / Unsatisfactory
Remarks :			

Name of Supervisor：	Click or tap here to enter text.	Signature：	
*Delete whichever is not applicable		Date：	