

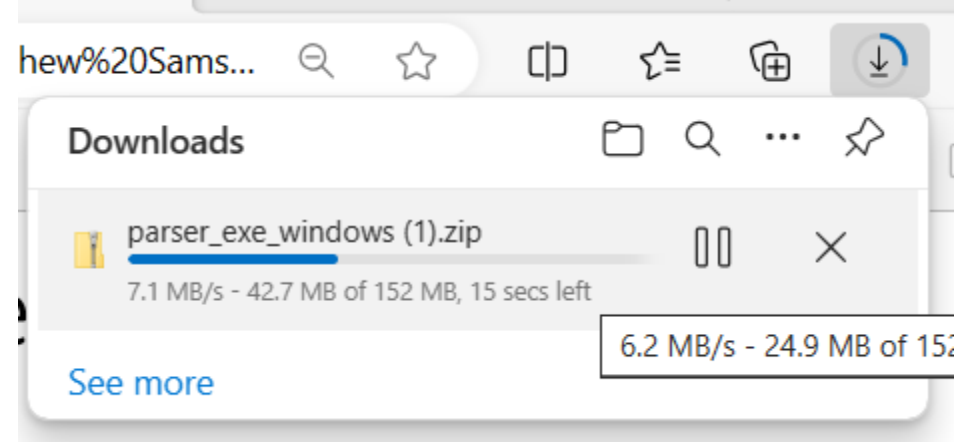
# Parser setup and run guide

# Download MATLAB

- <https://www.mathworks.com/academia/tah-portal/kennesaw-state-university-31081932.html> Follow this link
- [https://apps.kennesaw.edu/files/pr\\_app\\_uni\\_cdoc/doc/Matlab\\_DownloadInstructions.pdf](https://apps.kennesaw.edu/files/pr_app_uni_cdoc/doc/Matlab_DownloadInstructions.pdf) or this one too
- If you can't install MATLAB on your own I'm sorry but you may not be built for engineering

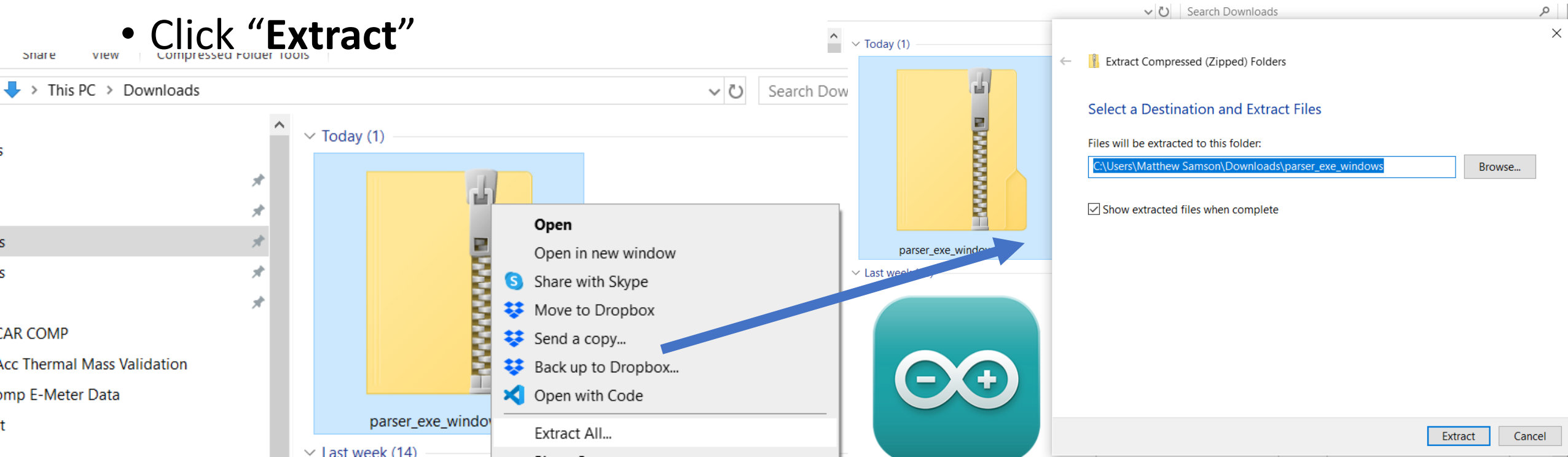
# Downloading

- Click this link to download:
  - [https://github.com/KSU-MS/KS5e-Data-Logging/releases/latest/download/parser\\_exe\\_windows.zip](https://github.com/KSU-MS/KS5e-Data-Logging/releases/latest/download/parser_exe_windows.zip)
- Download of a file called “parser\_exe\_windows.zip” should initiate
- Example of file downloading on my PC:



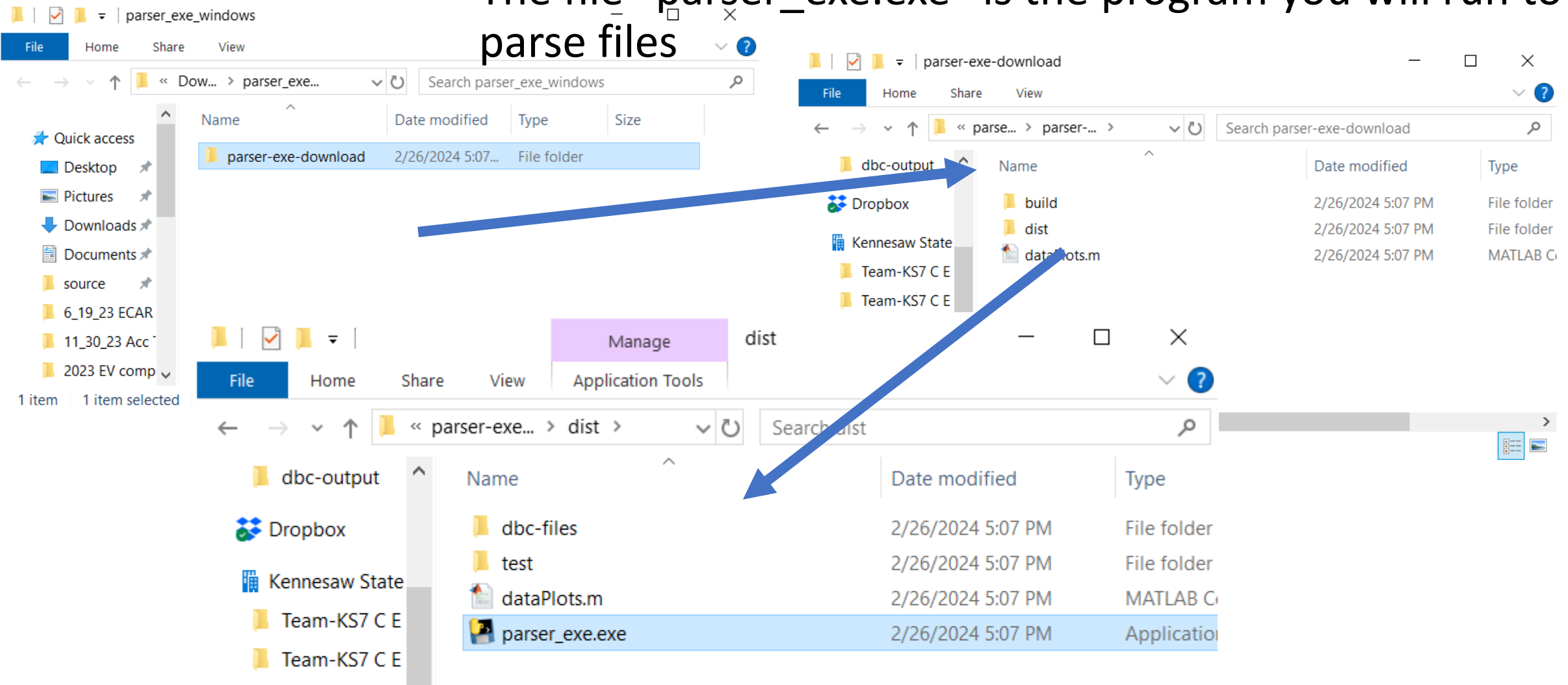
# Extracting

- Once the download is complete, go to the place you downloaded it to
- Right click the zip file and click **“Extract All...”**
- Check the box to **“Show extracted files when complete”**
- Click **“Extract”**



# Running

- When extraction is finished, a folder should pop up
- Open “parser-exe-download”, then open “dist”
- The file “parser\_exe.exe” is the program you will run to parse files



# Get data to parse

- [parsing sample data](#) Go to this link
- Click the ellipsis (the ...) and click download
- Unzip files and open the folder

+ New ▾    ↑ Upload ▾    📄 Edit in grid view    🔗 Share    🔗 Copy link    🔄 Sync    📁 Add shortcut to OneDrive    ⋮    ☰ All Documents ▾

Documents > Data Acquisition and Code > Test Day Data > 2023 Testing EV > **parsing\_sample\_data**

📄	Name ▾	Modified ▾	Modified By ▾	+ Add column
📄	MDY_1-3-2024_HMS_19-55-59.CSV	A few seconds ago	Matthew Samson	
📄	MDY_1-3-2024_HMS_20-13-14.CSV	A few seconds ago	Matthew Samson	
📄	MDY_1-3-2024_HMS_20-19-36.CSV	A few seconds ago	Matthew Samson	

↓ Download

📄 Export to Excel

🔗 Automate >

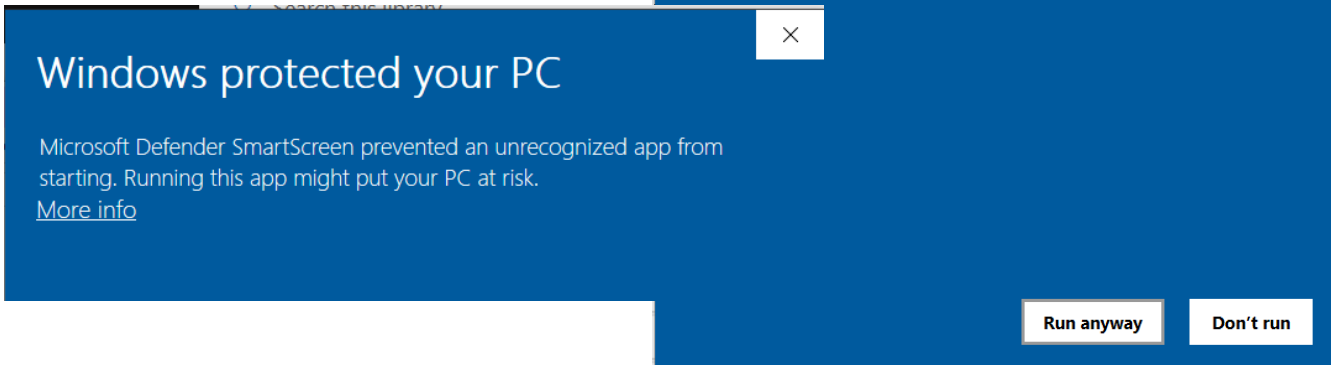
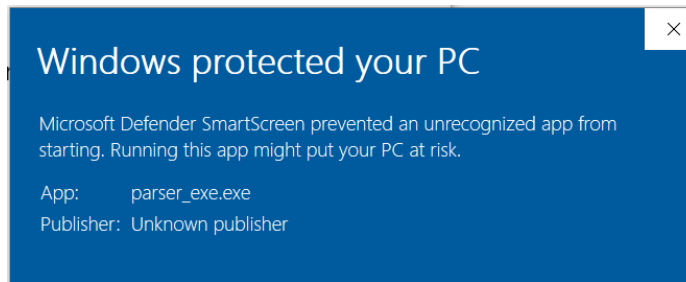
📄 Integrate >

🔔 Alert me

🔔 Manage my alerts

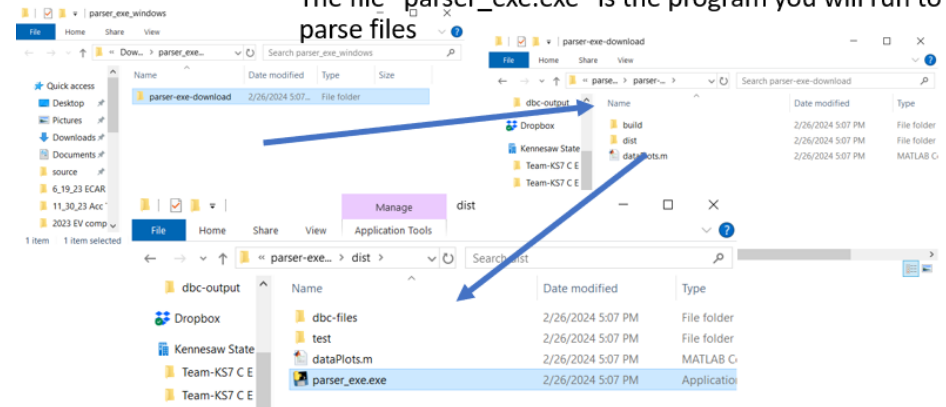
# Run the parser

- Go to wherever you downloaded “parser\_exe.exe” from this step
- Double click the .exe to run it
- Click “More info” then “Run anyway”



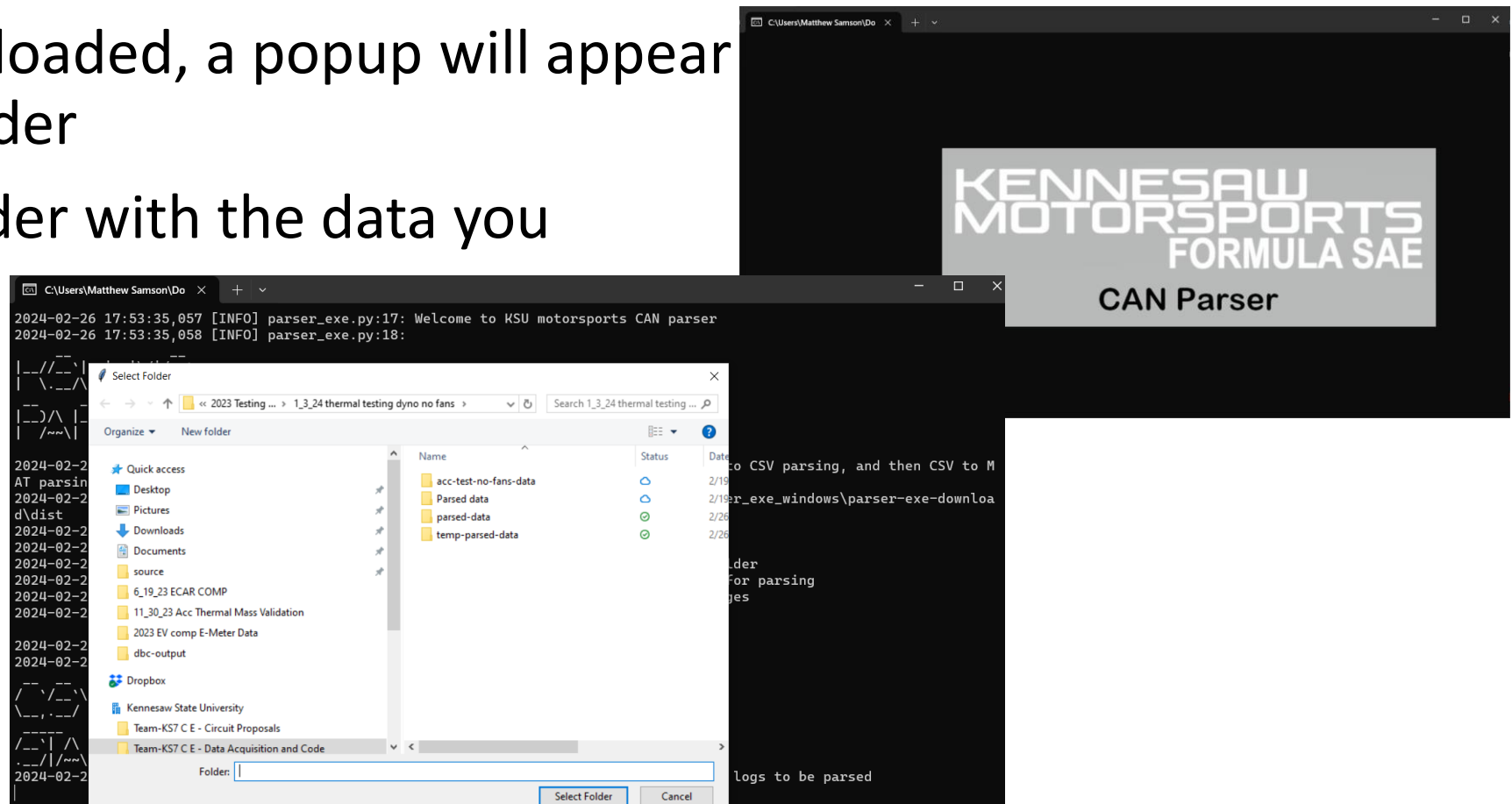
Running

- When extraction is finished, a folder should pop up
- Open “parser-exe-download”, then open “dist”
- The file “parser\_exe.exe” is the program you will run to parse files



# Running the parser

- You should see this splash screen while the parser loads
- Once its fully loaded, a popup will appear to select a folder
- Select the folder with the data you downloaded





# Running the parser

- If you selected a folder correctly, you should see some text that says parsing is happening
- Now just wait for it to finish

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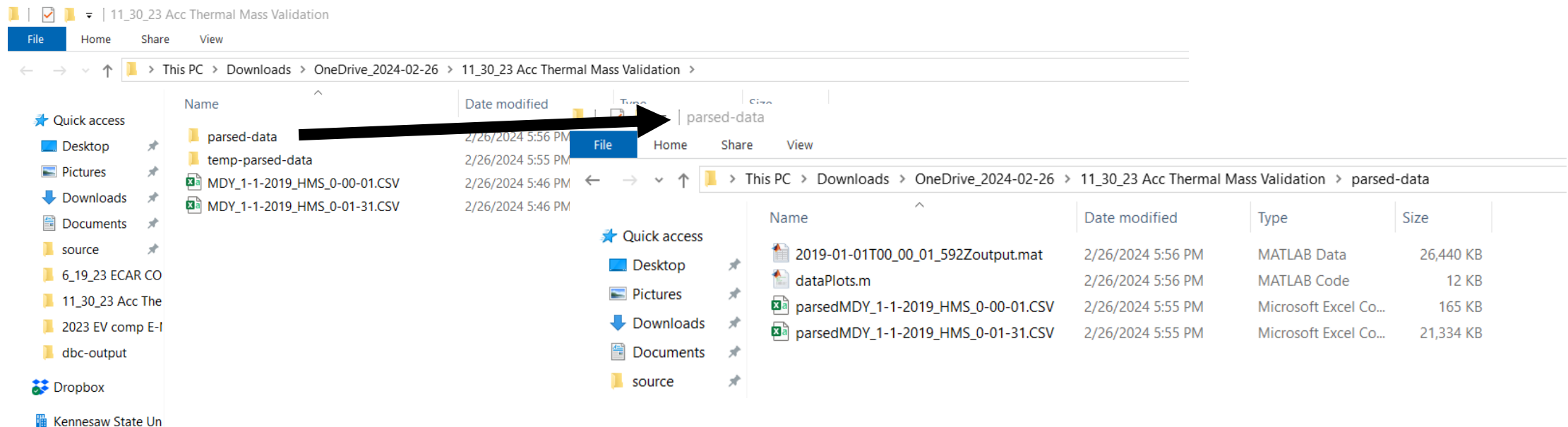
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/ \ | ^ | ) |
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2024-02-26 17:53:35,500 [INFO] parser_exe.py:71: Select a folder which contains the raw logs to be parsed
2024-02-26 17:55:22,446 [INFO] folder_selection_utils.py:18: Selected folder path: C:/Users/Matthew Samson/Downloads/OneDrive_2024-02-26/11_30_23 Acc Thermal Mass Validation
2024-02-26 17:55:22,448 [INFO] parser_api.py:409: found 2 CSVs in C:\Users\Matthew Samson\Downloads\OneDrive_2024-02-26\11_30_23 Acc Thermal Mass Validation
2024-02-26 17:55:22,448 [INFO] parser_api.py:263: start parsing: MDY_1-1-2019_HMS_0-00-01.CSV
2024-02-26 17:55:22,557 [WARNING] parser_api.py:372: These IDs not found in DBC: ['D4', '1839F380', '68']
2024-02-26 17:55:22,558 [INFO] parser_api.py:428: Successfully parsed: MDY_1-1-2019_HMS_0-00-01.CSV with 1713 lines in 0.10941529273986816 seconds
2024-02-26 17:55:22,588 [INFO] parser_api.py:263: start parsing: MDY_1-1-2019_HMS_0-01-31.CSV

```

# Parsing finished

- The program will automatically open the folder with the downloaded data that you selected
- Open the “parsed-data” folder to get the results
- Double click “dataPlots.m” to open the matlab script to plot



# Matlab Plotting

- This should be your view in matlab once you open dataPlots.m
- Open the file with “output.mat” in its name, then hit “Run”

