# Parser setup and run guide

# Download MATLAB

- [https://www.mathworks.com/academia/tah-portal/kennesaw-state-university-31081932.html](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
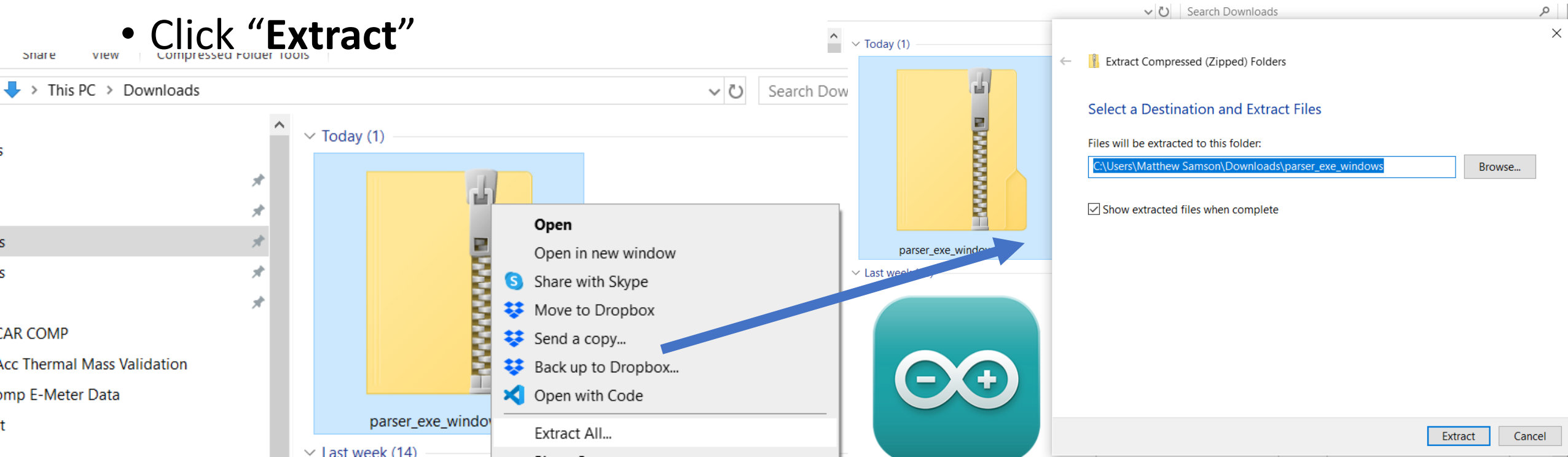
# Downloading

- 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:
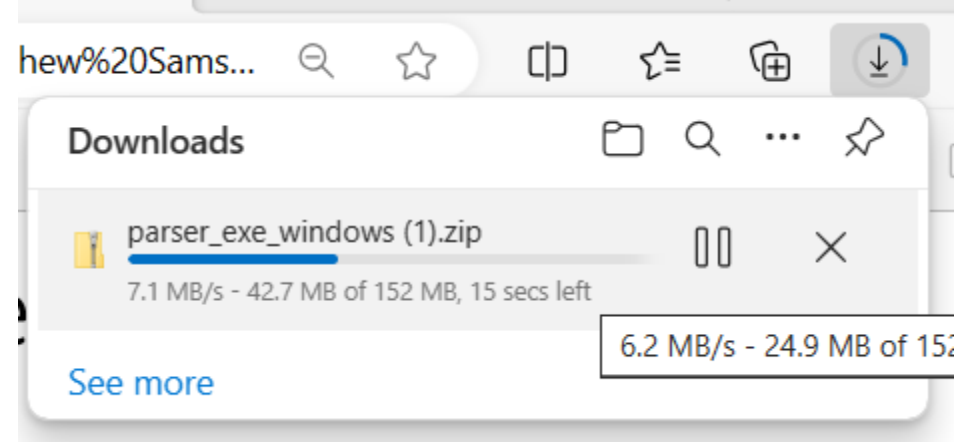
# Extracting

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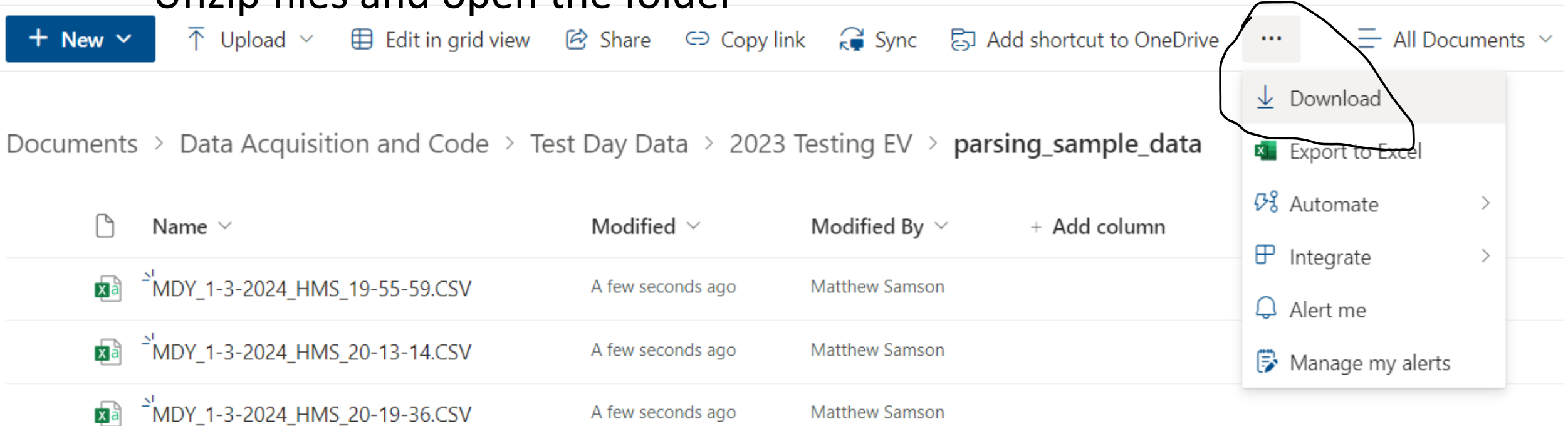- Check the box to "**Show extracted files when complete**"
- Click "**Extract**"

# 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
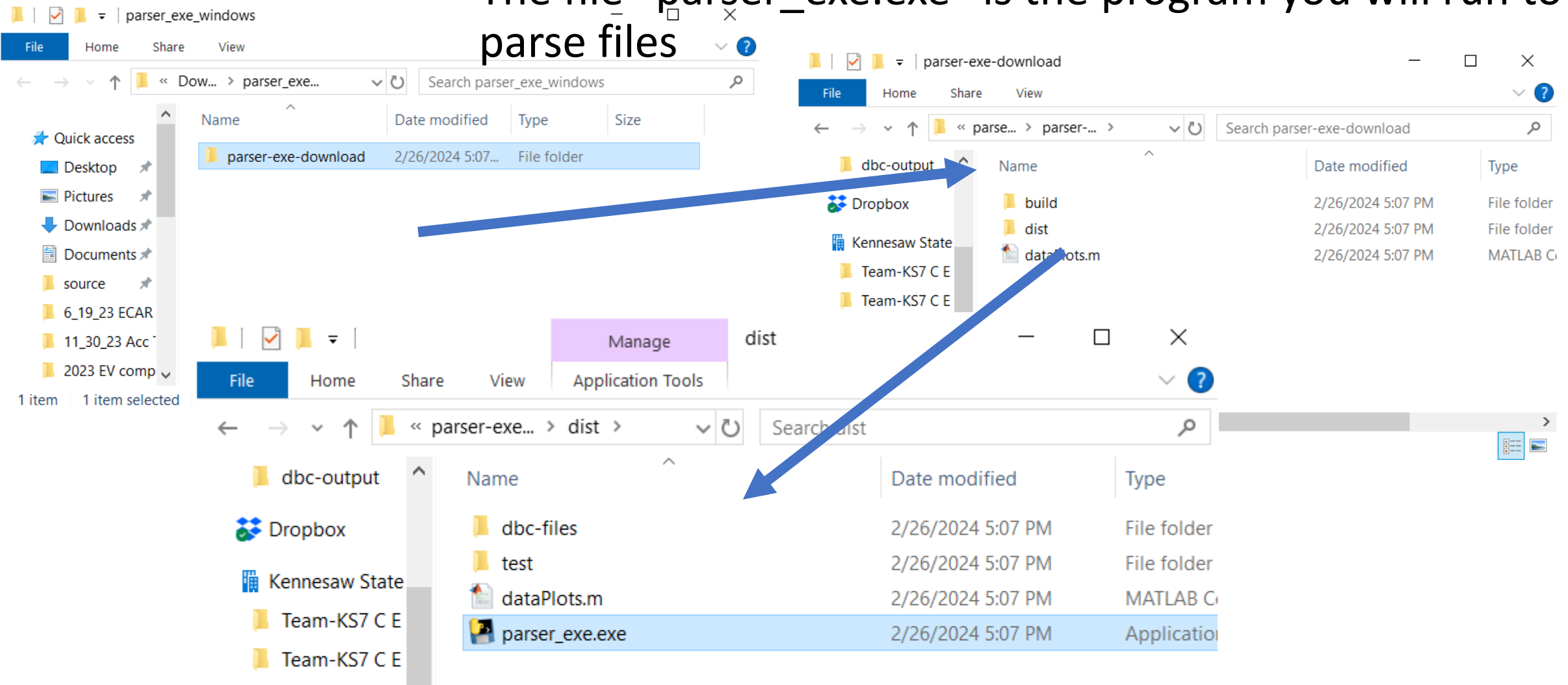
# Get data to parse

- [parsing_sample_data](#) Go to this link

- Click the ellipsis (the …) and click download
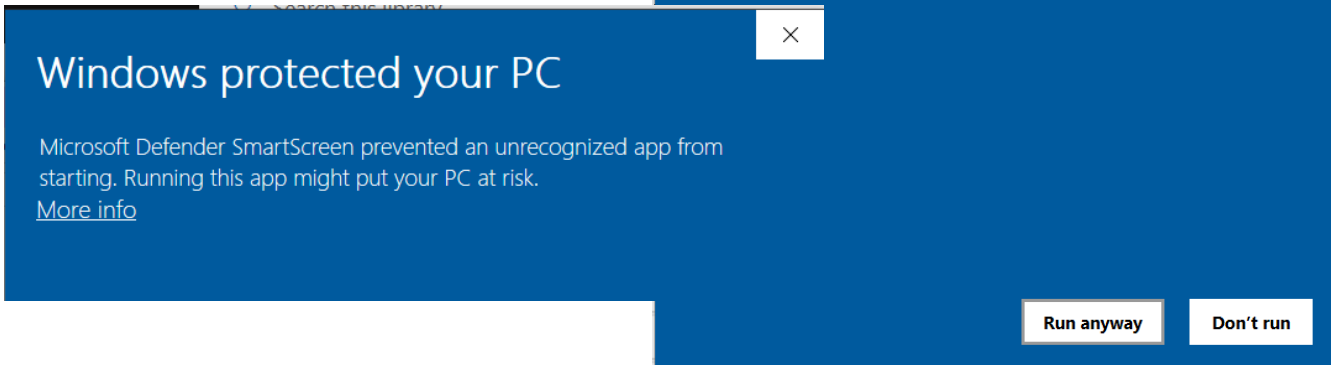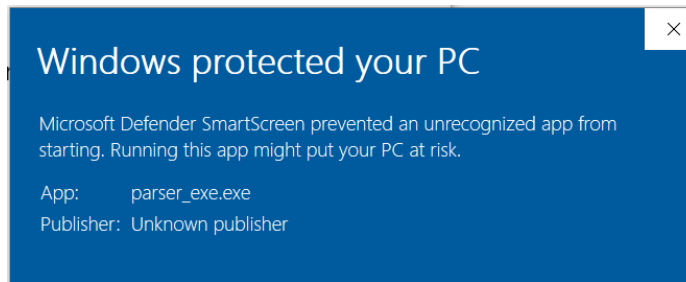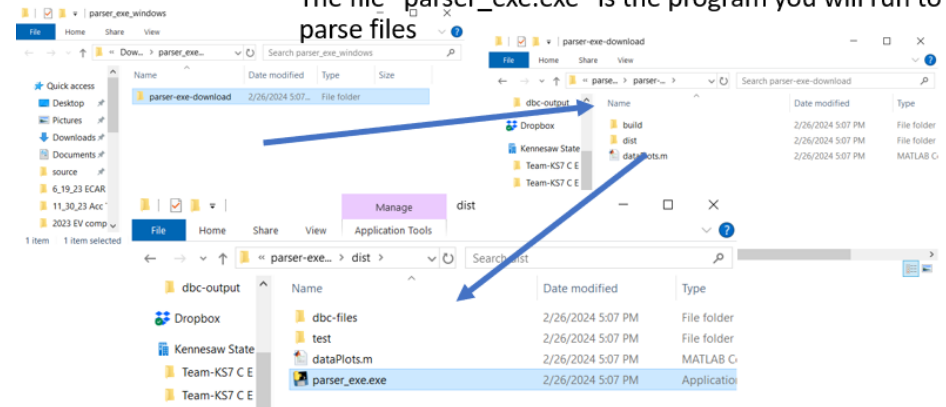
- Unzip files and open the folder

# 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"
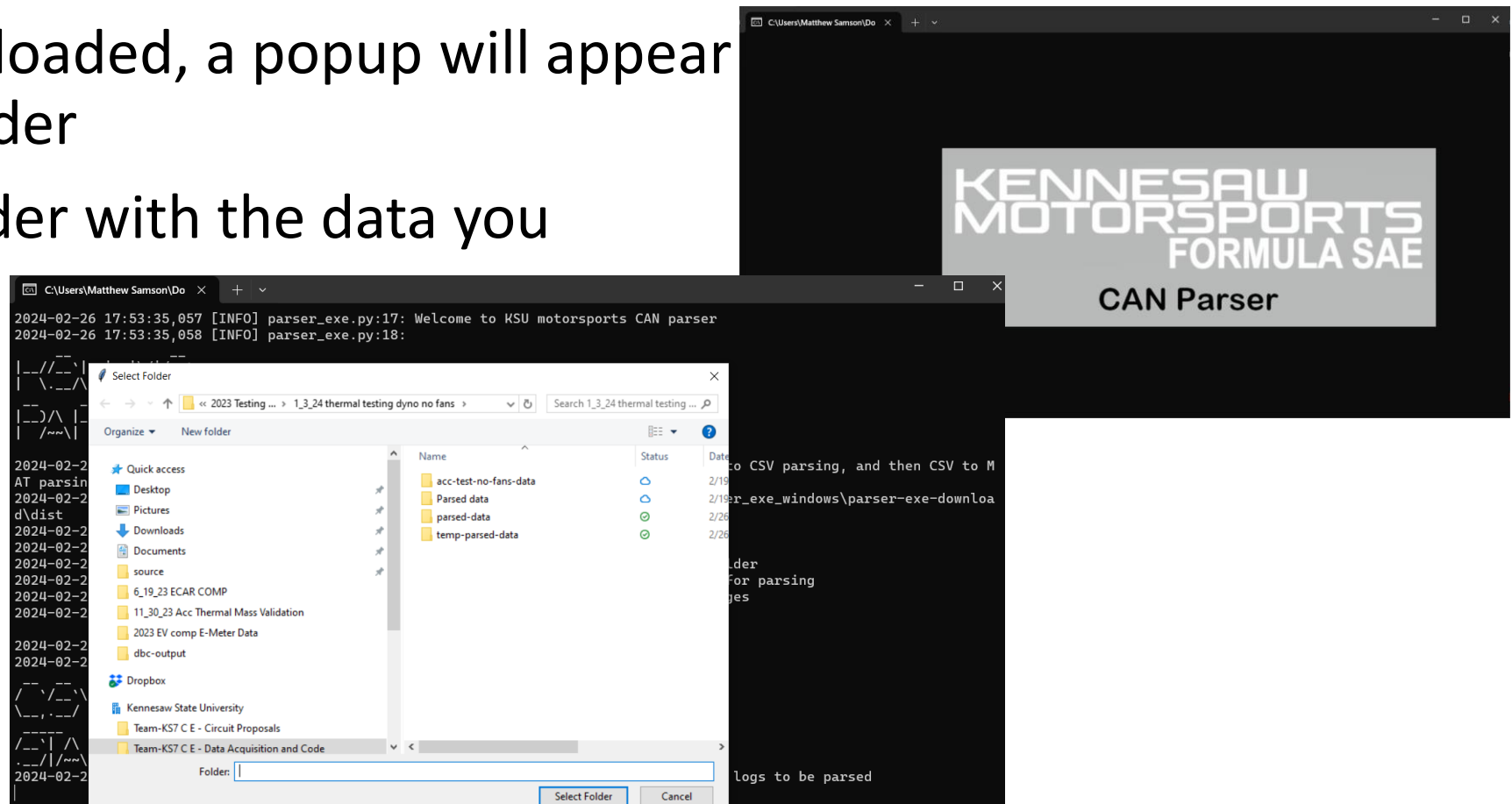
Running

- 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



```
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/One
Drive_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
.1094152927398686816 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
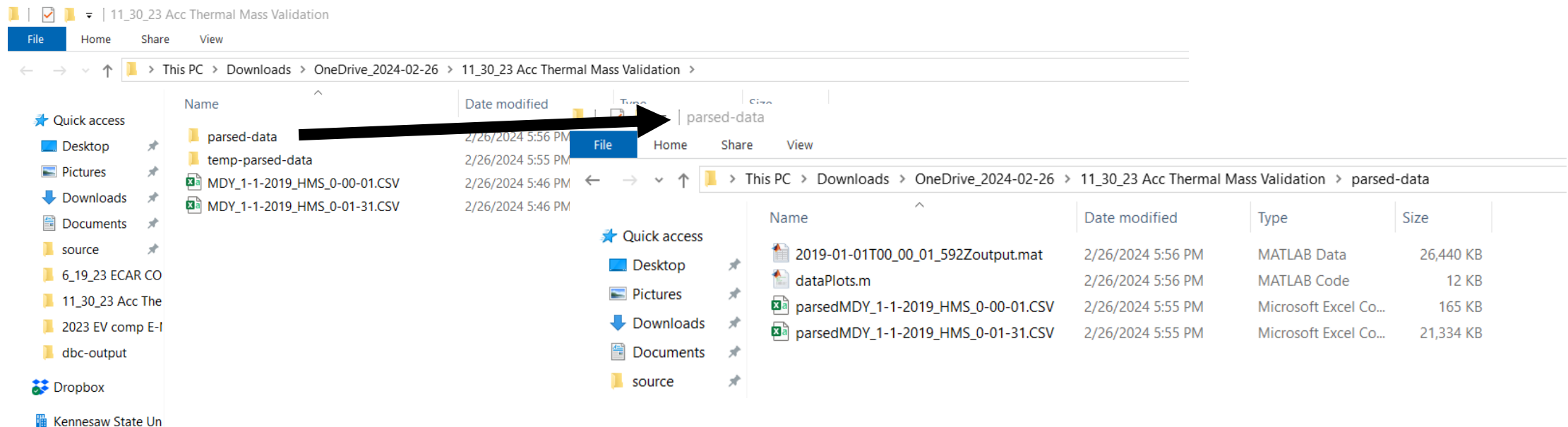
# Matlab Plotting

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