**Automation of Electrochemical Square Wave Voltammetry Data Analysis**

**Steps on using the data automation program**

[Next](file:///C:\Users\westw\Desktop\Recording_20240808_2329.mht)

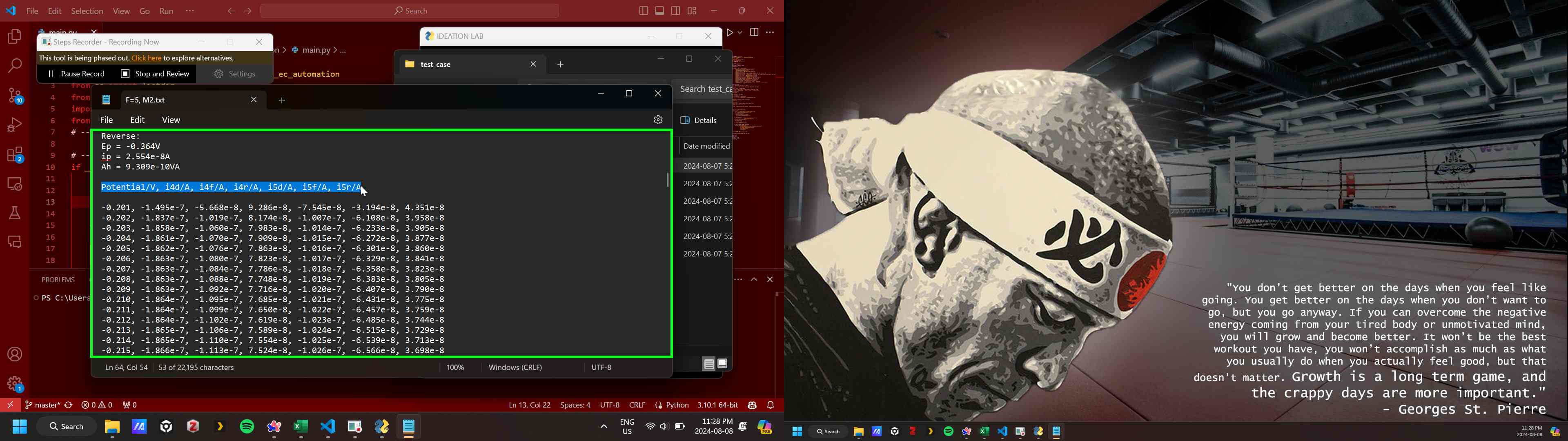
**Step 1:** Open the program labeled “Ideation Automation”

[Previous](file:///C:\Users\westw\Desktop\Recording_20240808_2329.mht) [Next](file:///C:\Users\westw\Desktop\Recording_20240808_2329.mht)

**Step 2:** Click “Browse” and select folder with raw data in “.txt” or “.csv” format.

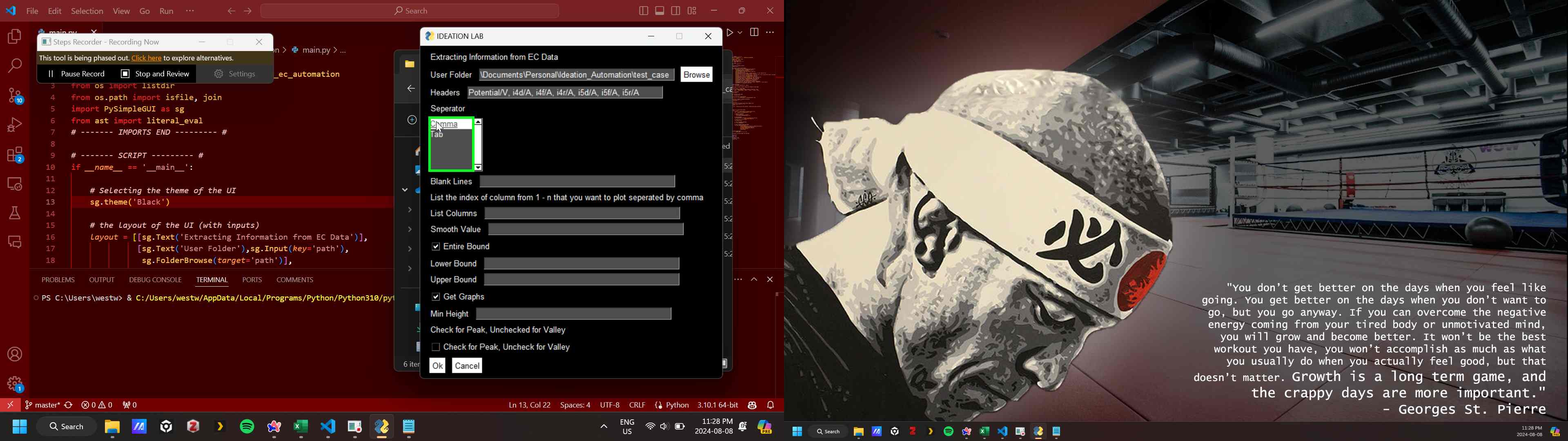
[Previous](file:///C:\Users\westw\Desktop\Recording_20240808_2329.mht) [Next](file:///C:\Users\westw\Desktop\Recording_20240808_2329.mht)

**Step 3:** Copy headers from the raw data



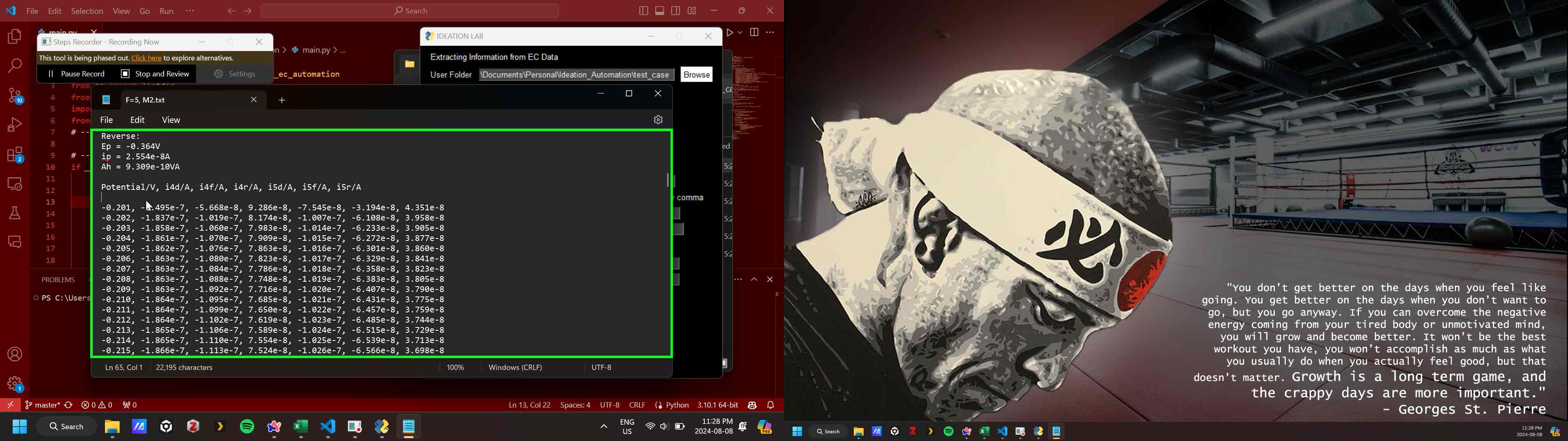
[Previous](file:///C:\Users\westw\Desktop\Recording_20240808_2329.mht) [Next](file:///C:\Users\westw\Desktop\Recording_20240808_2329.mht)

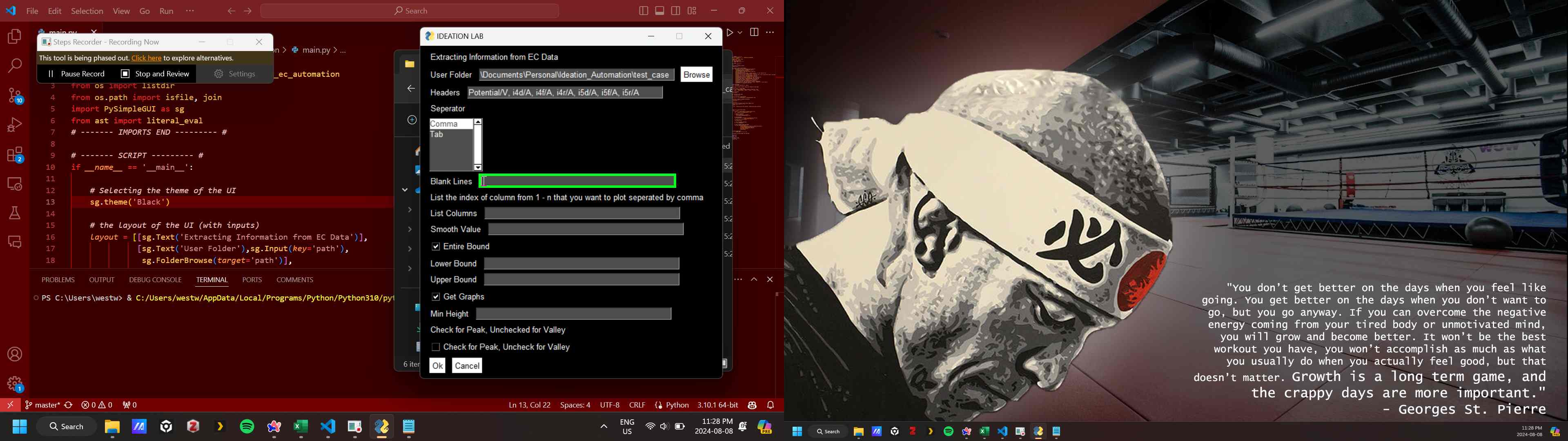
**Step 4:** Paste the headers into the header tap of the document and select the relevant seperator



[Previous](file:///C:\Users\westw\Desktop\Recording_20240808_2329.mht) [Next](file:///C:\Users\westw\Desktop\Recording_20240808_2329.mht)

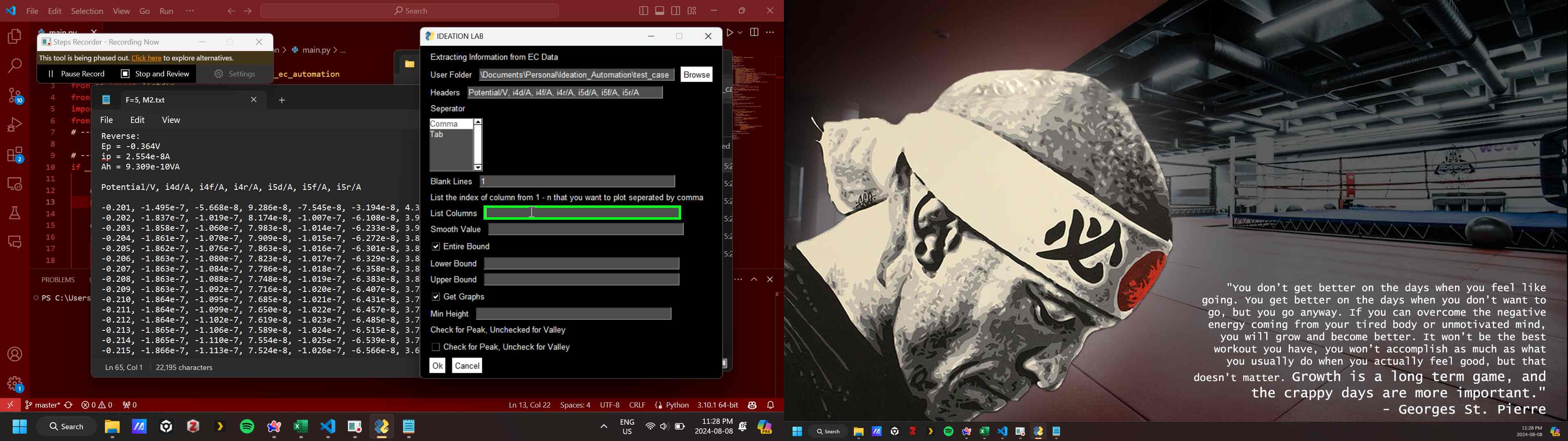
**Step 5:** Counter number of blank lines separating the headers and the data





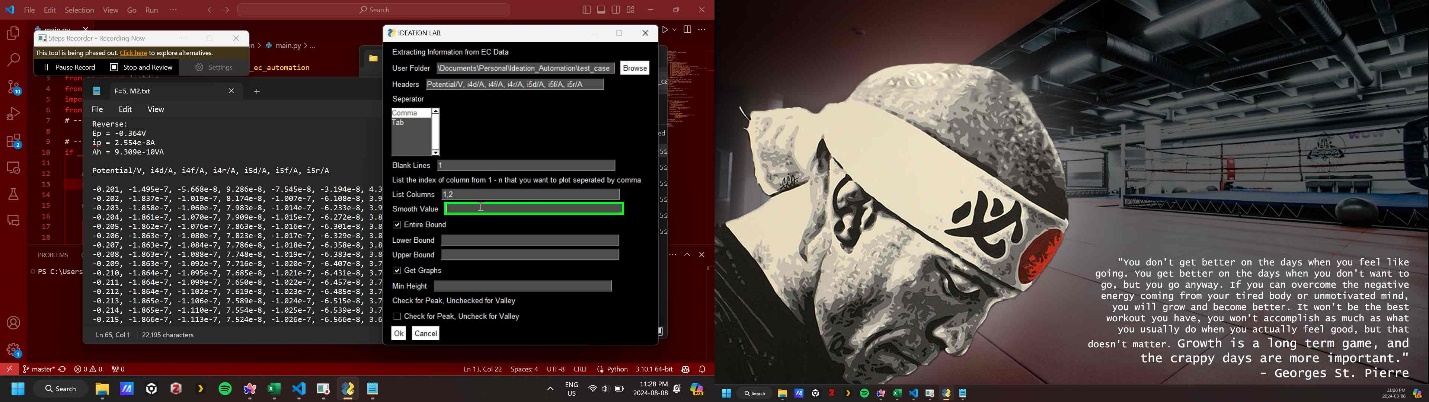
[Previous](file:///C:\Users\westw\Desktop\Recording_20240808_2329.mht) [Next](file:///C:\Users\westw\Desktop\Recording_20240808_2329.mht)

**Step 6: (‎2024-‎08-‎08 11:27:50 PM)** Add the indexes of the columns of interest, separated by commas



[Previous](file:///C:\Users\westw\Desktop\Recording_20240808_2329.mht) [Next](file:///C:\Users\westw\Desktop\Recording_20240808_2329.mht)

**Step 7:** Add a value for smoothing the curve

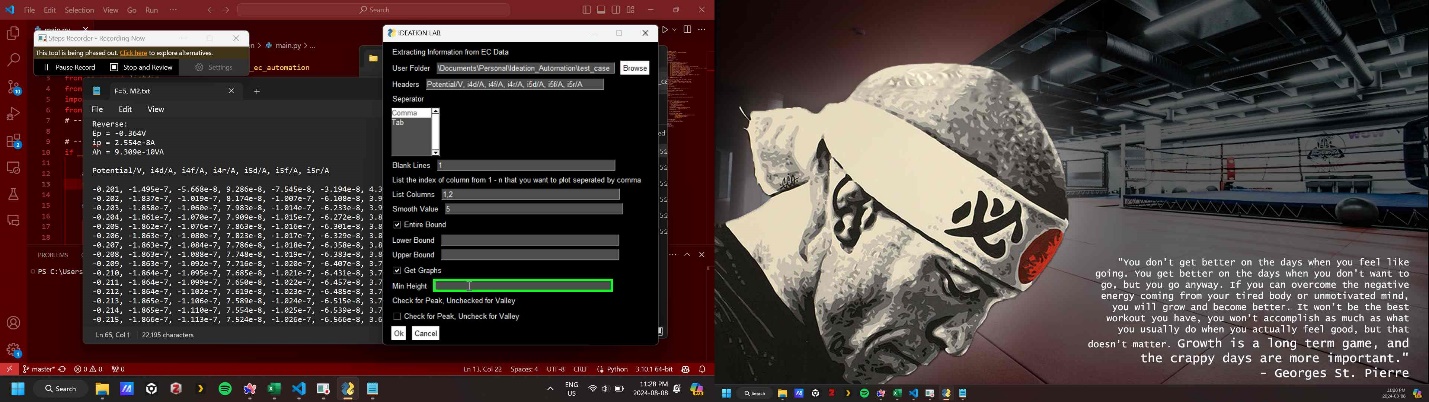


[Previous](file:///C:\Users\westw\Desktop\Recording_20240808_2329.mht) [Next](file:///C:\Users\westw\Desktop\Recording_20240808_2329.mht)

**Step 8: (‎Optional)** Modify the bounds of interest in the data

[Previous](file:///C:\Users\westw\Desktop\Recording_20240808_2329.mht) [Next](file:///C:\Users\westw\Desktop\Recording_20240808_2329.mht)

**Step 9:** Insert the minimum height of the peaks (this value is determined using trail and error and is data dependent)

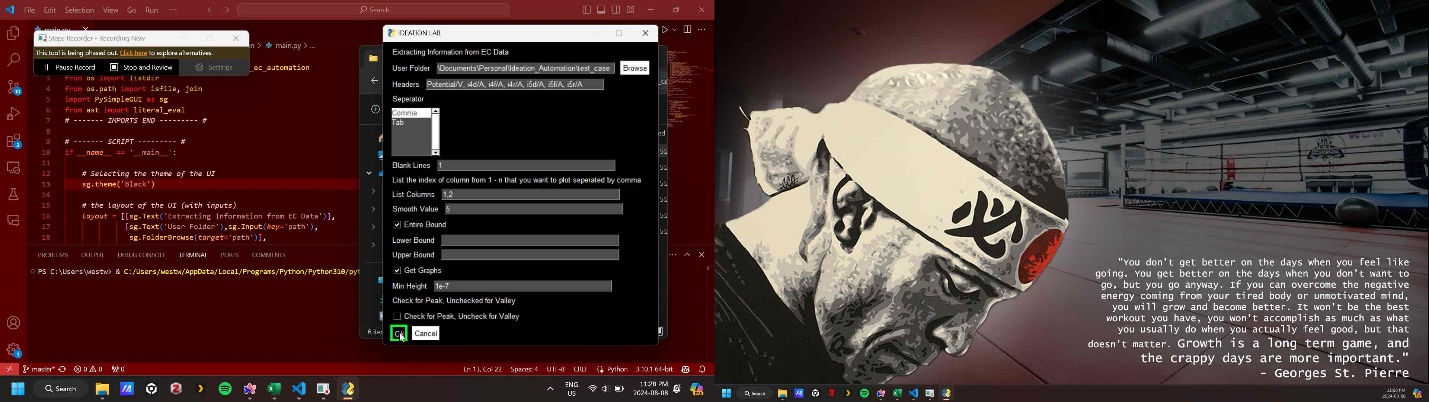


[Previous](file:///C:\Users\westw\Desktop\Recording_20240808_2329.mht) [Next](file:///C:\Users\westw\Desktop\Recording_20240808_2329.mht)

**Step 10: (‎Optional)** Click box to detect peaks instead of minimum values in the graph

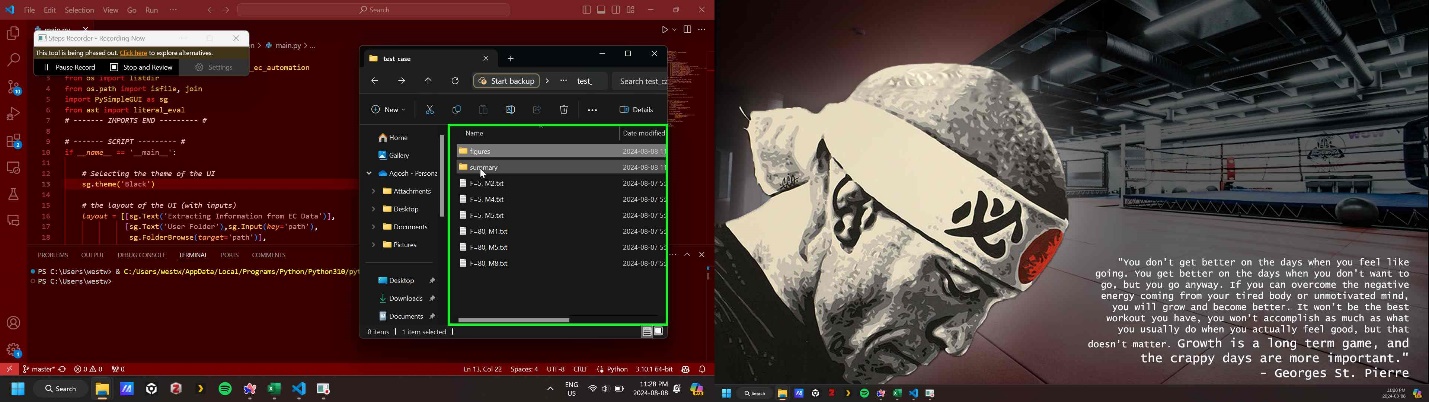
[Previous](file:///C:\Users\westw\Desktop\Recording_20240808_2329.mht) [Next](file:///C:\Users\westw\Desktop\Recording_20240808_2329.mht)

**Step 11:** Click “Ok”



[Previous](file:///C:\Users\westw\Desktop\Recording_20240808_2329.mht)

**Step 12: (‎2024-‎08-‎08 11:27:58 PM)** Figures and summary documents automatically generated in the folder with the data



[Return to top of page...](file:///C:\Users\westw\Desktop\Recording_20240808_2329.mht)