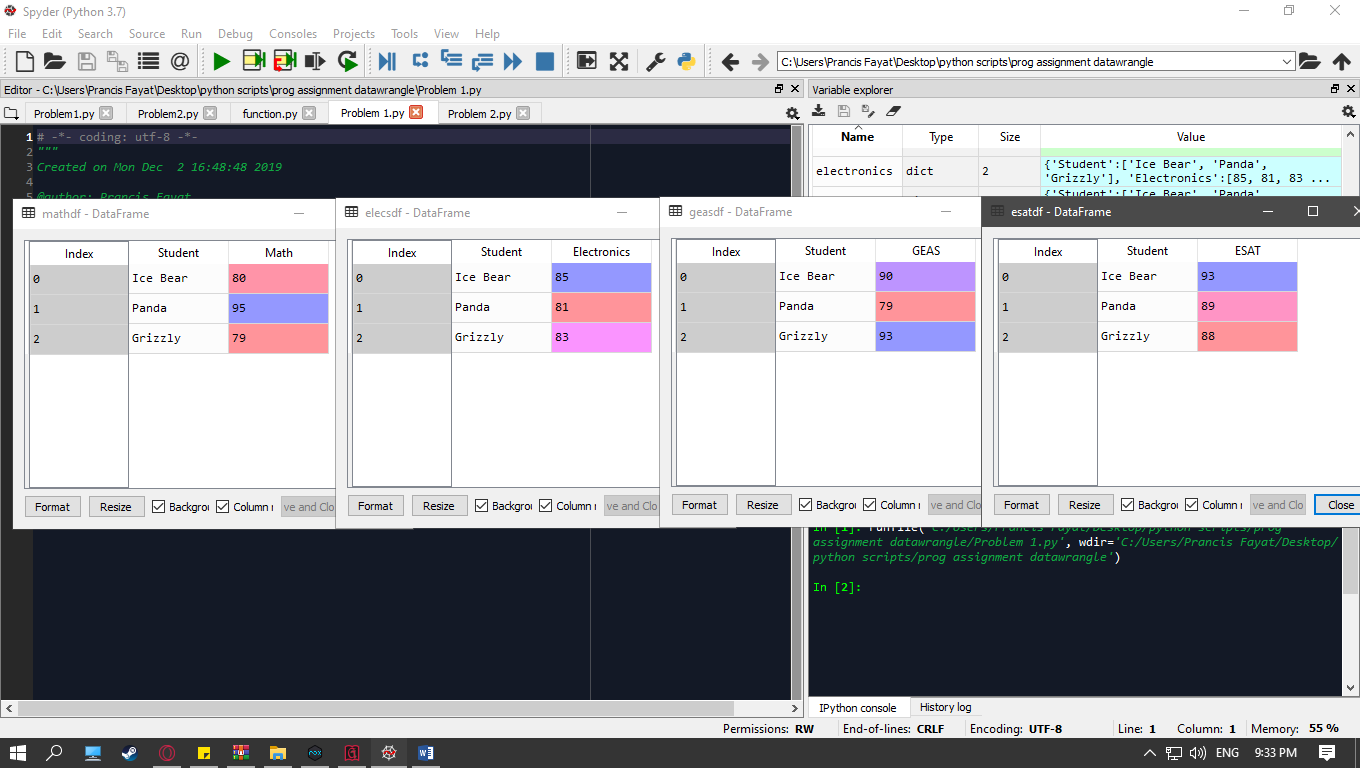
Lim, Francis Raemark L. 12/4/2019

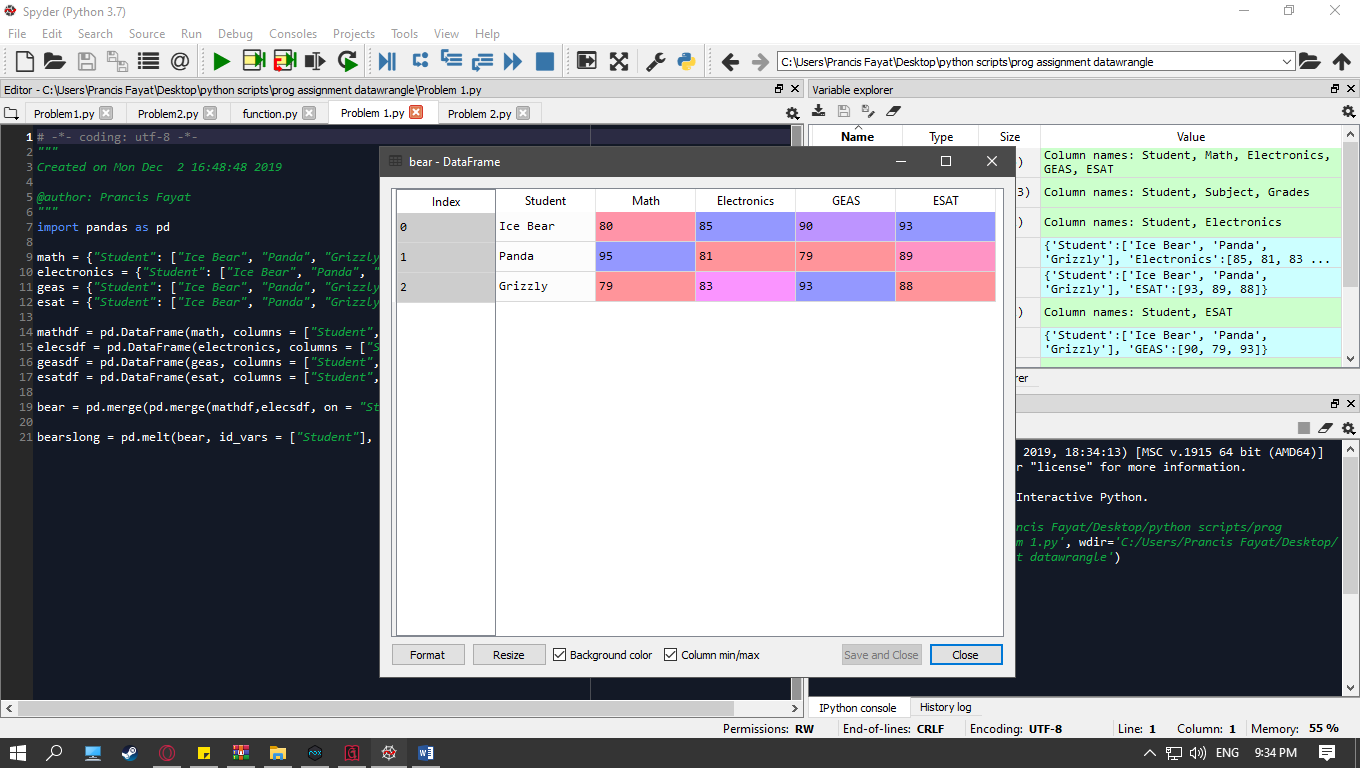
2ECE-C

**Problem 1:**

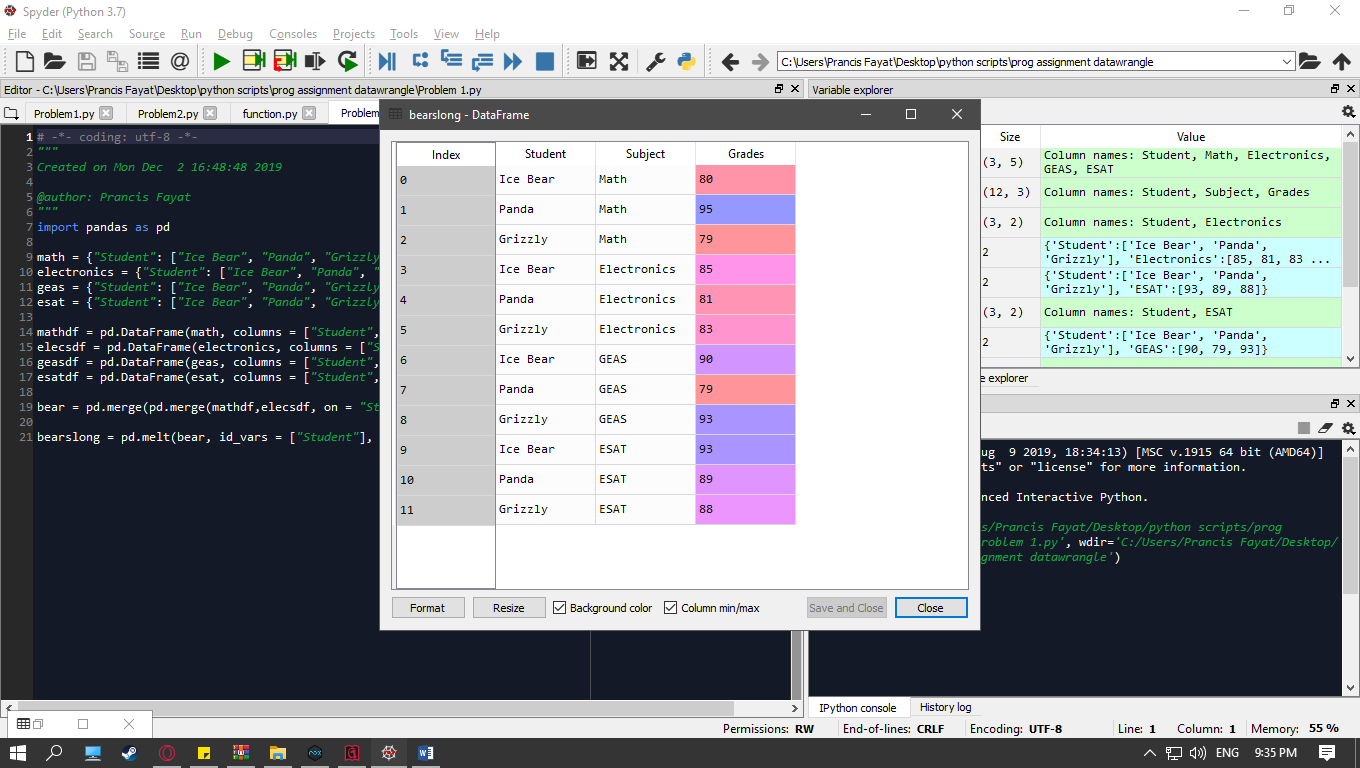
Given four data frames



Merged dataframe using pd.merge

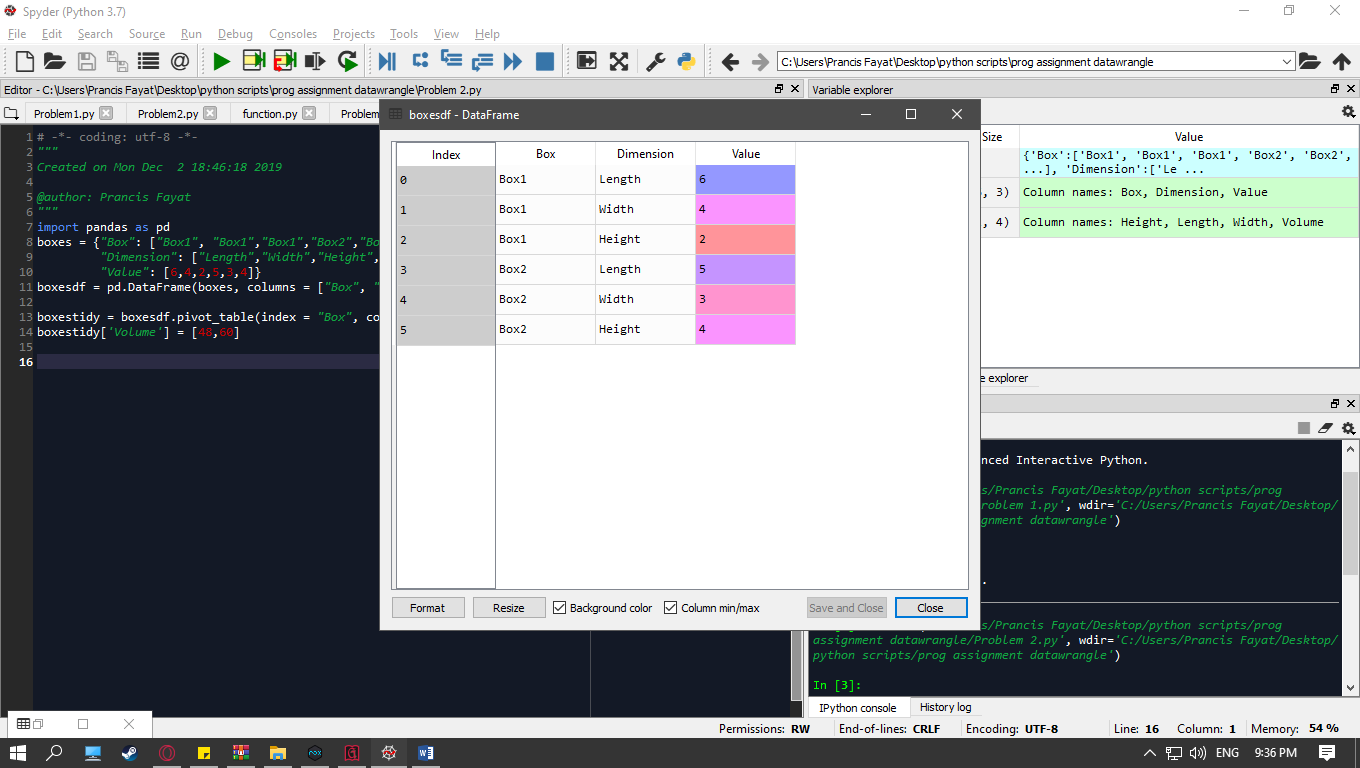


Merged data frame converted into long format (using pd.melt())

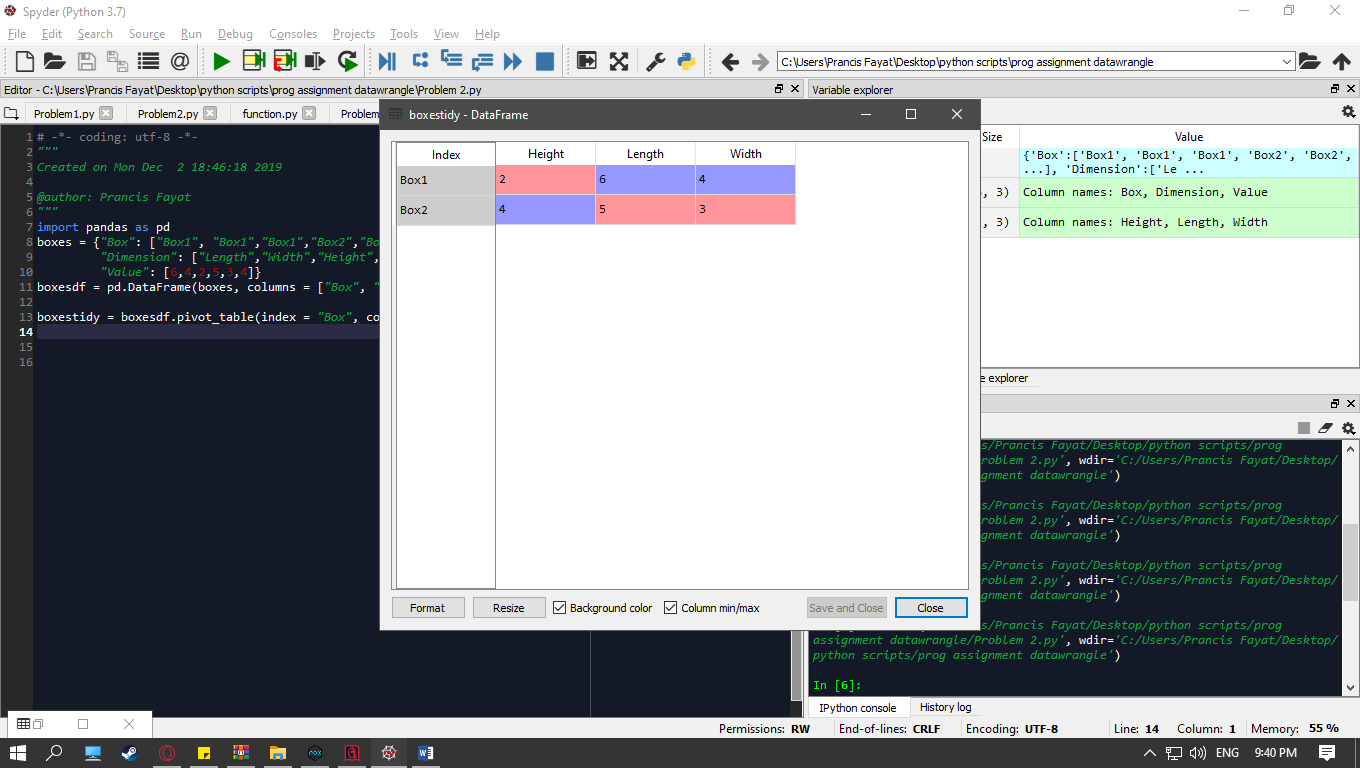


**Problem 2:**

Initial dataframe



Messy data frame transformed into tidy dataframe using pd.pivot\_table()  
note: boxestidy[‘Volume’] = [48,60] was removed to display the tidy dataframe without the added “Volume” column.



Tidy data frame with an added column named “Volume” that contains the volume of each box.

boxestidy[‘Volume’] = [48,60]

