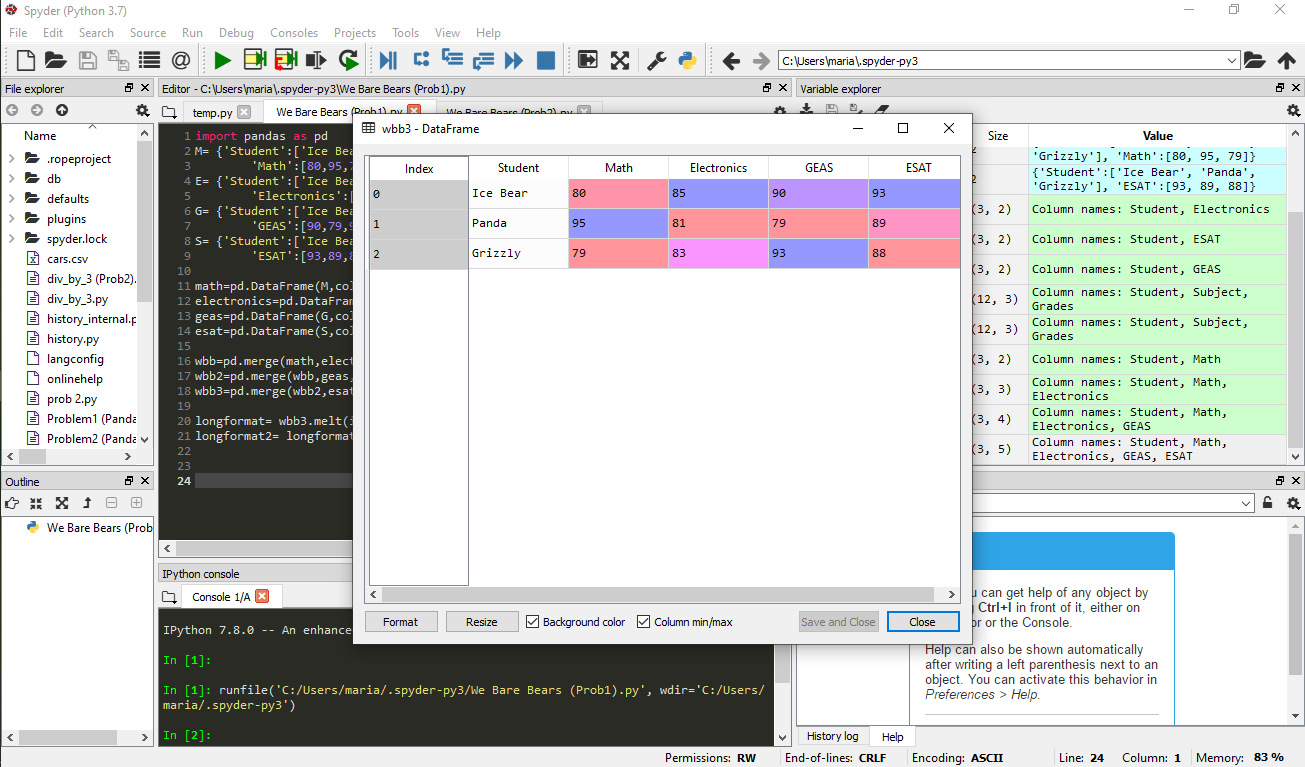
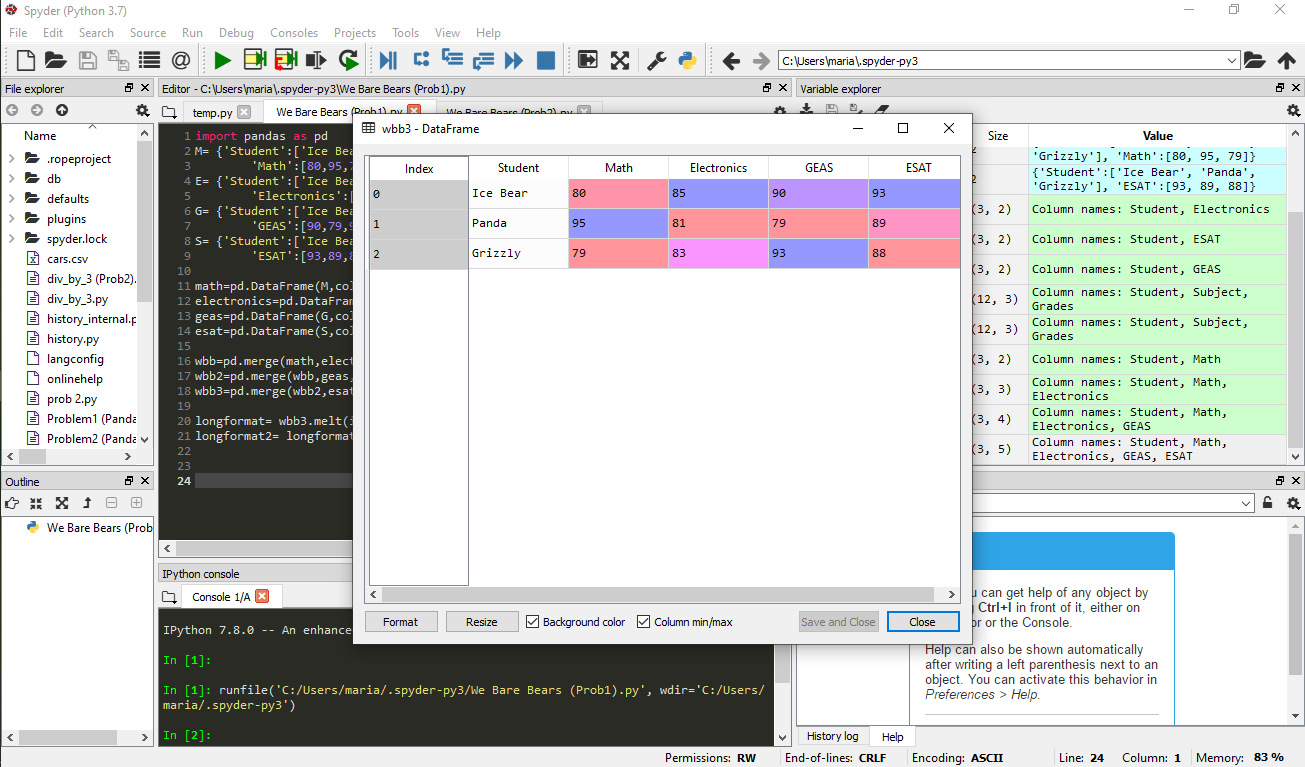
**DELA FUENTE, MARIANNE M. 2ECE-D**

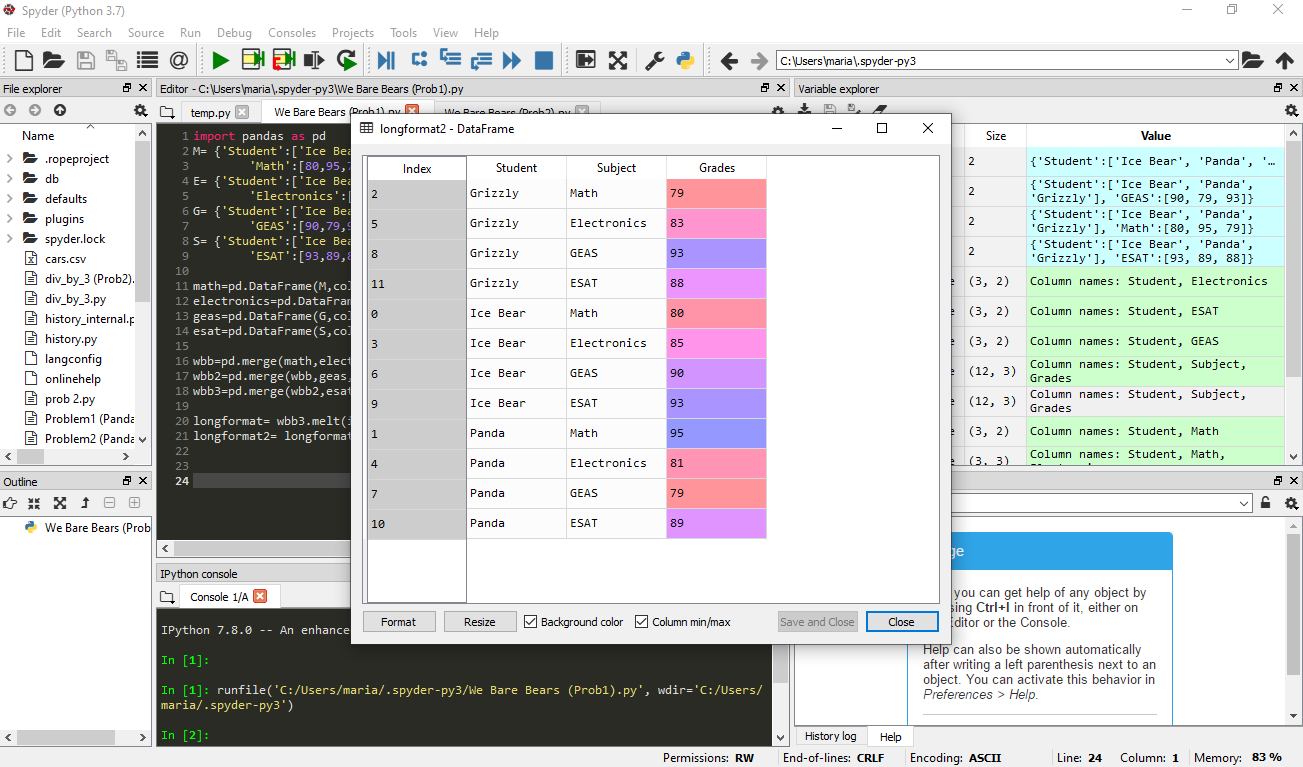
PROBLEM 1

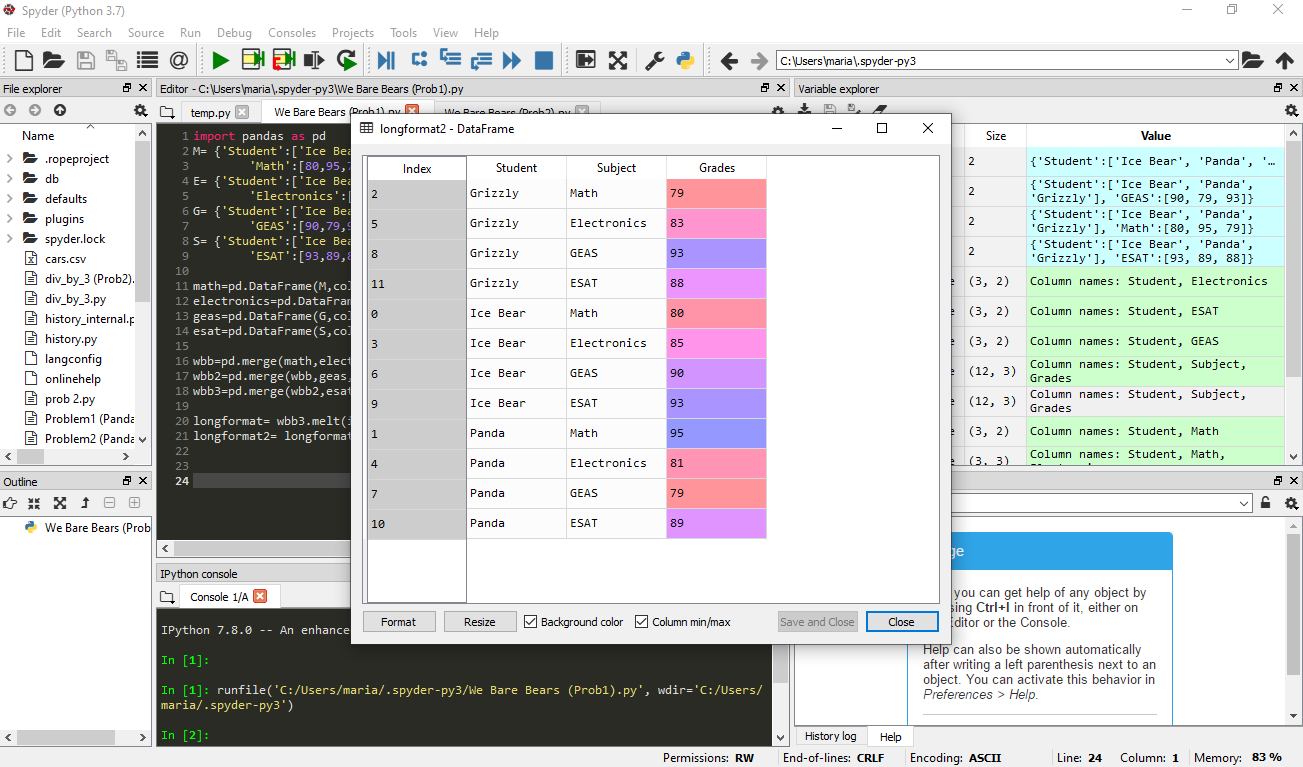
**Tidy Data Frame**



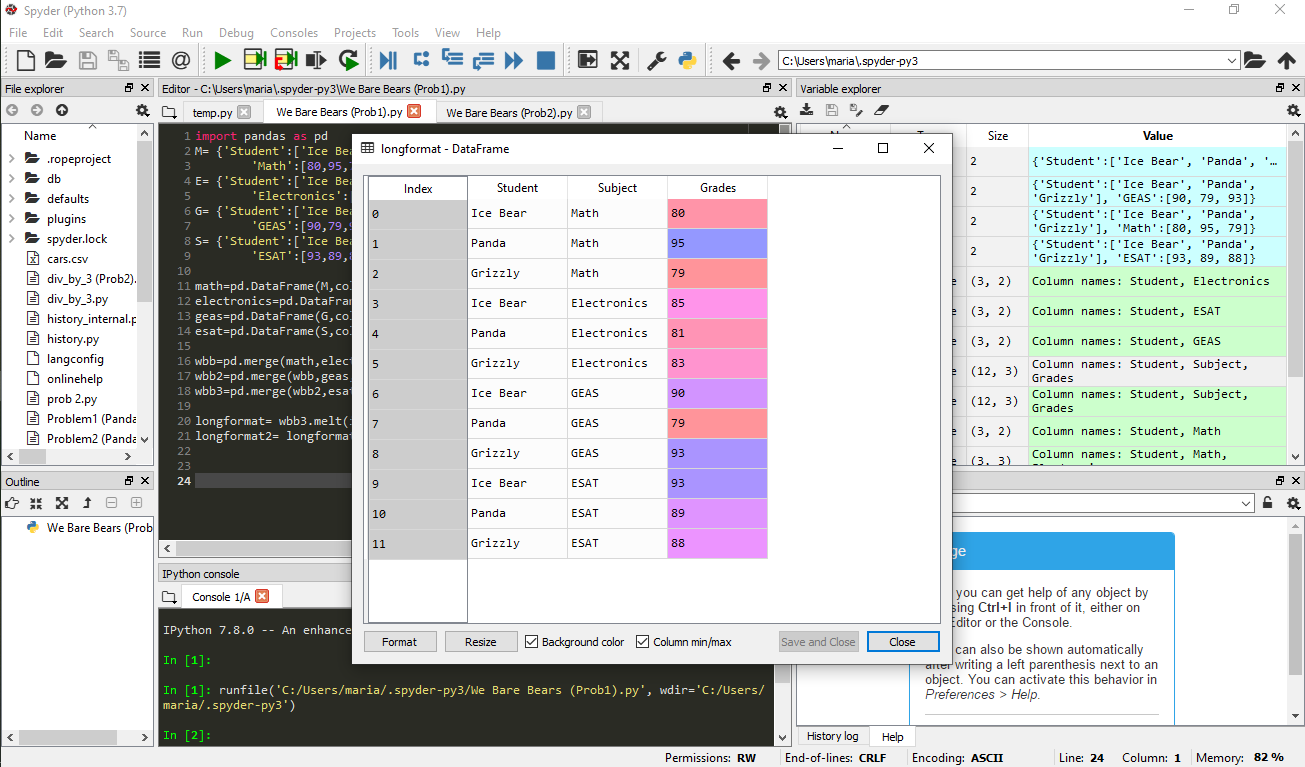


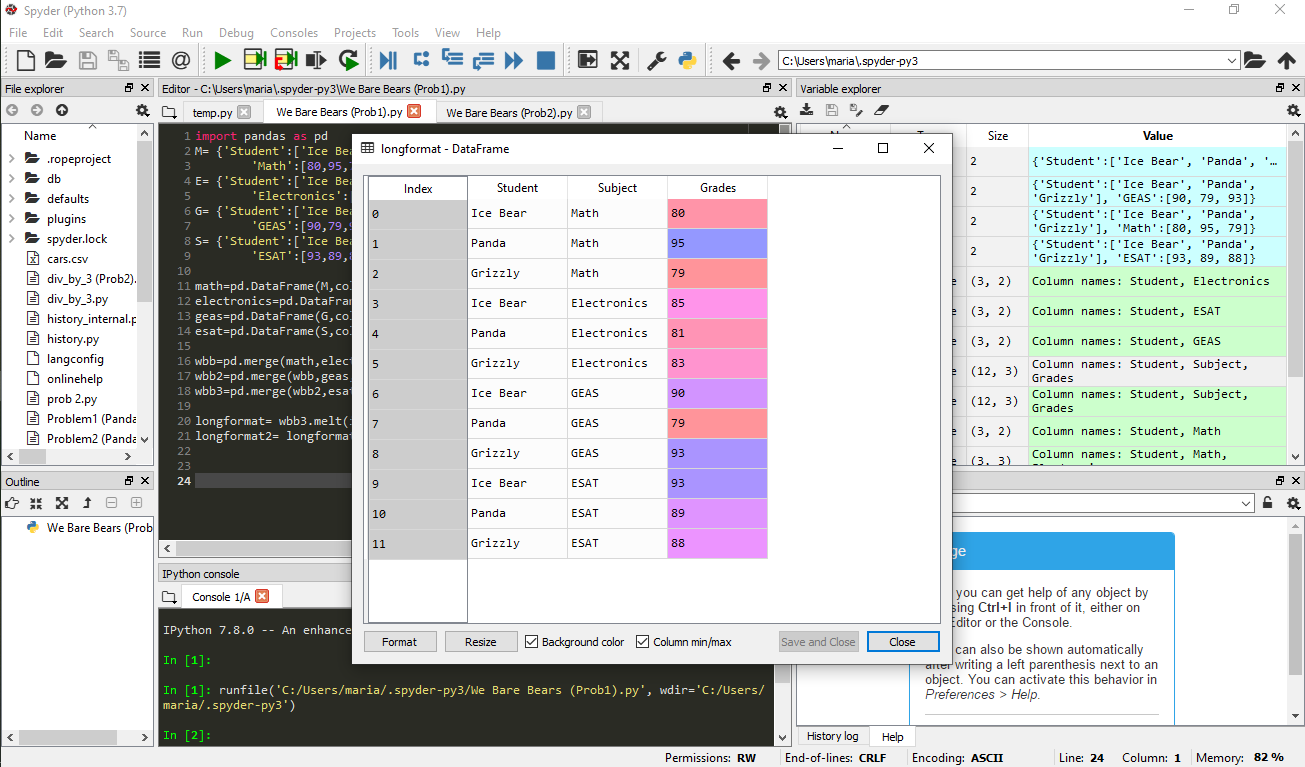
**Long format of the data frame arranged by the name of the student.**





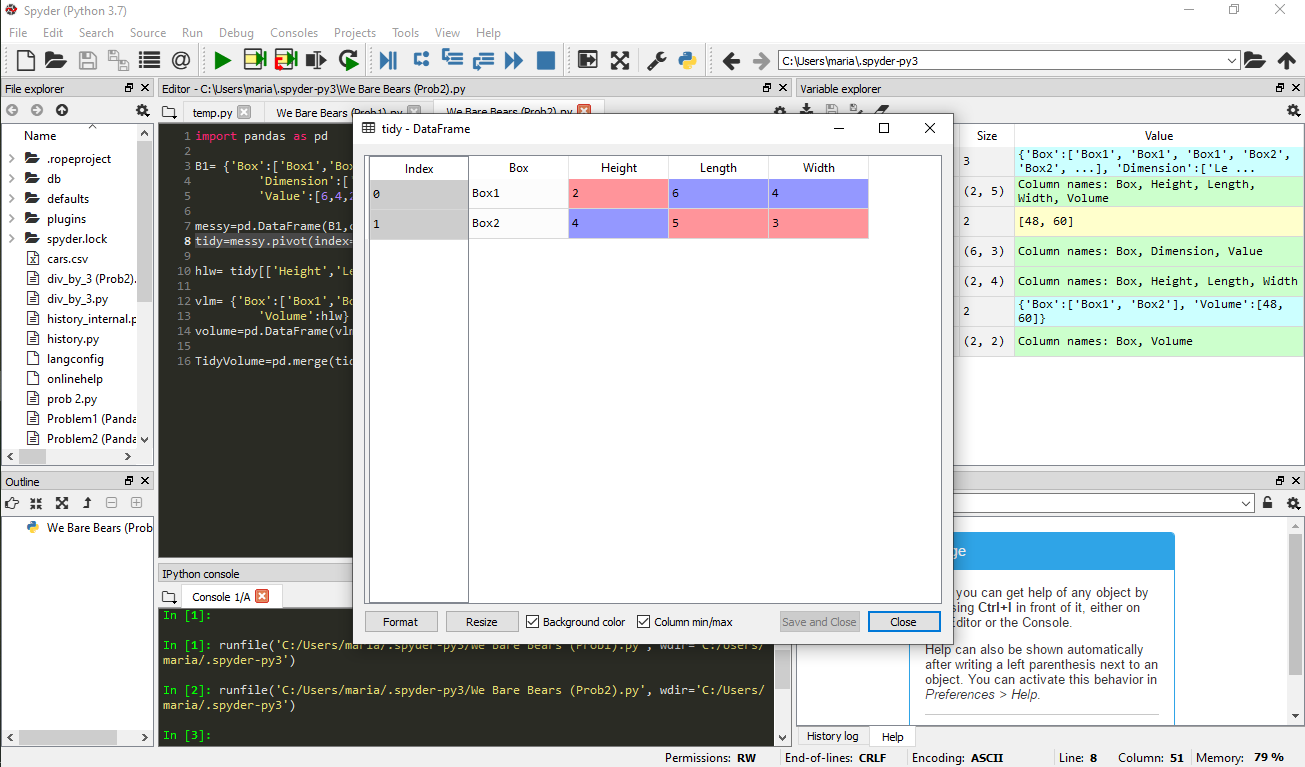
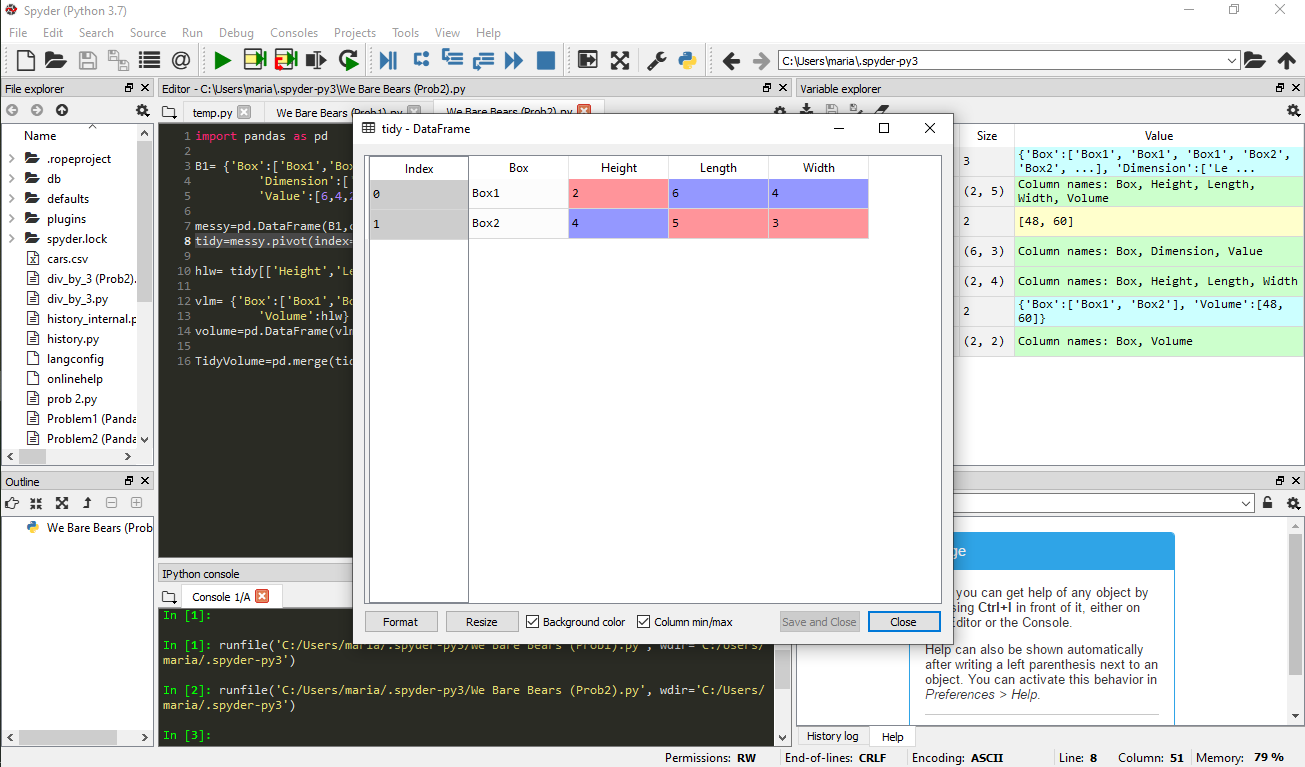
**Long format of the data frame arranged by the index.**



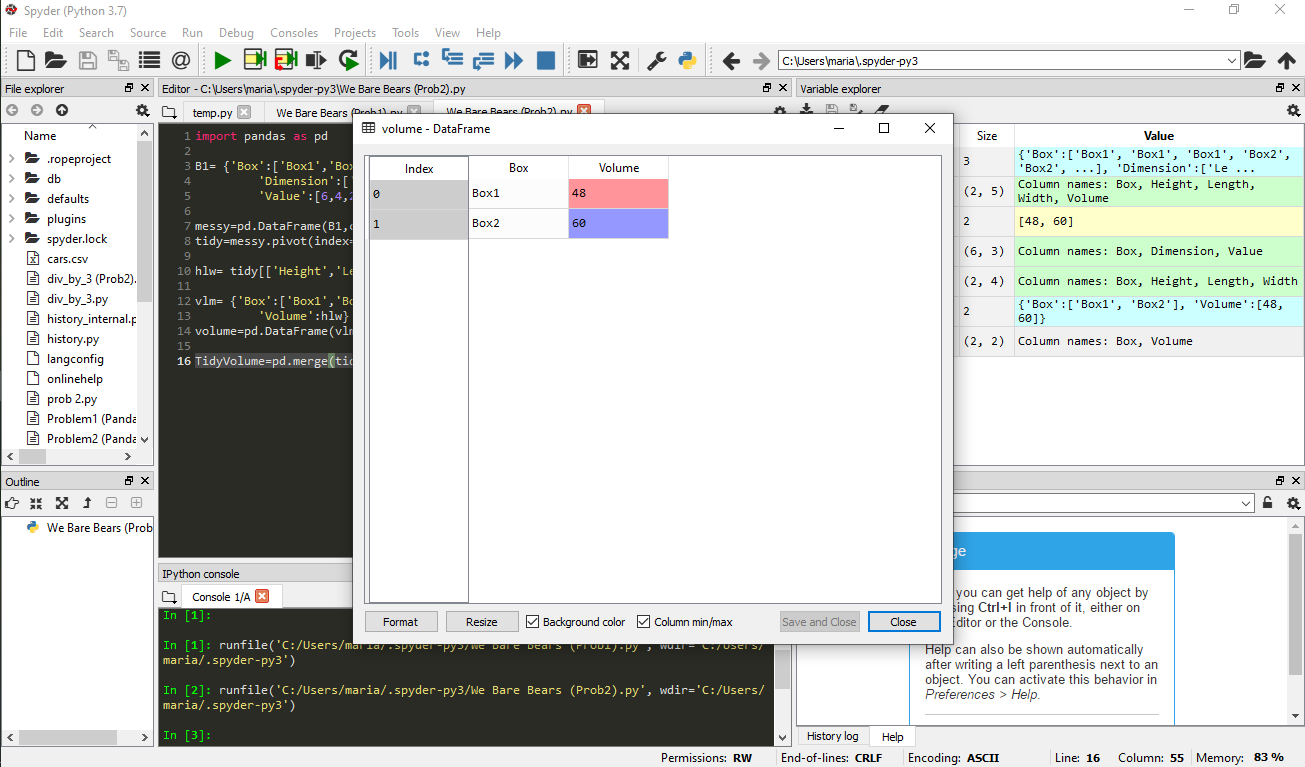
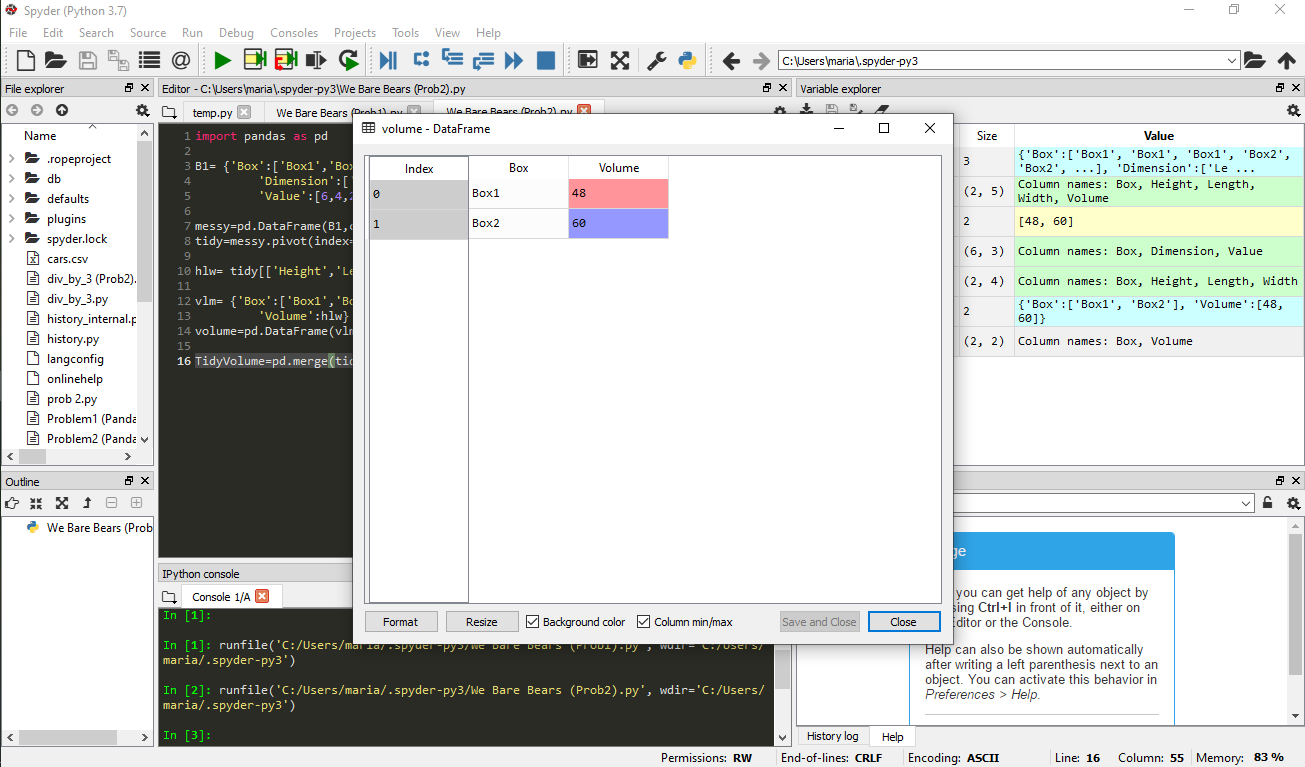


PROBLEM 2

**Tidy data frame**



**Data frame of the computed Volume**



**Data frame of merged tidy and volume data frames**

