## Principles of Data Science Assignment 1- question 2.

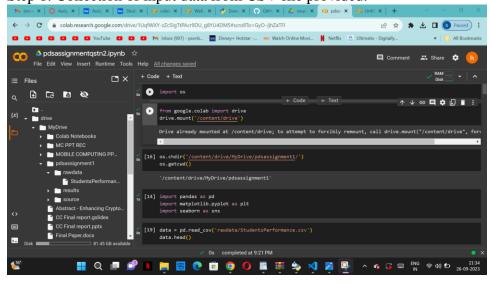
Hari chandra prasad Pasupuleti

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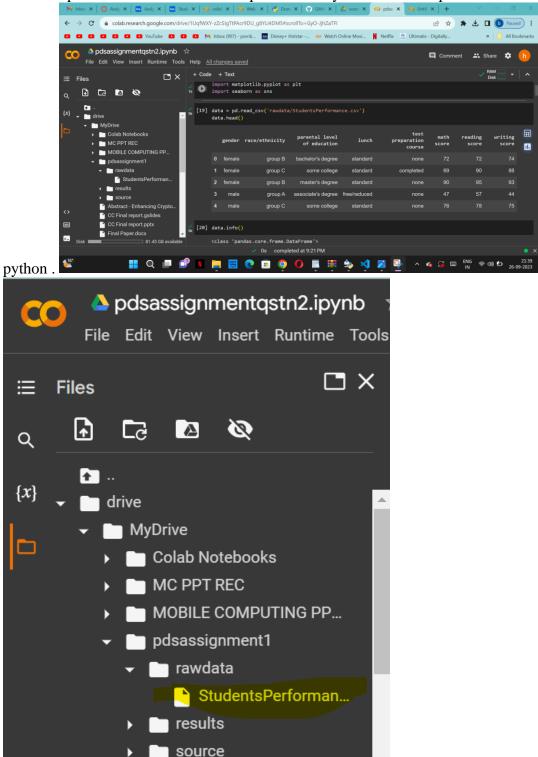
- 2) Perform 5 data visualization tasks on the student performance dataset given in the link below (create
- 5 different visualizations). Explain what kind analysis has become easier with each of the visualizations.

Create the folder structure for this question similar to question 1. (15 points)

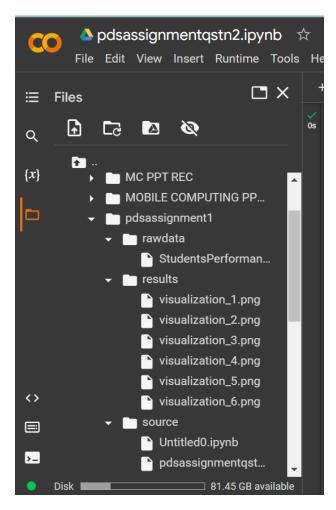
Step 1: Collection of input data from CSV file provided.



Above step indicates the utilization of pandas library to load studentperformance.csv file into

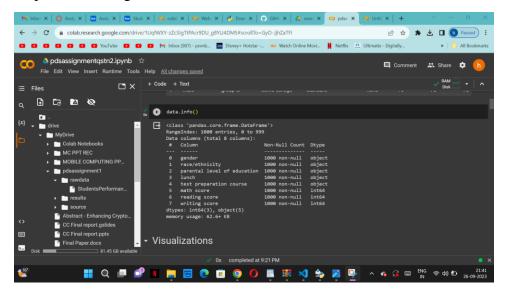


The above picture indicates the file structure of the folder created.

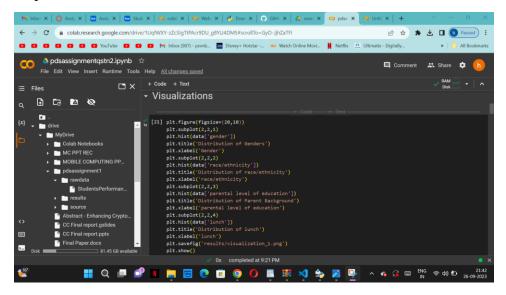


This file structure indicates the final folder structure with all the data visualization images obtained.

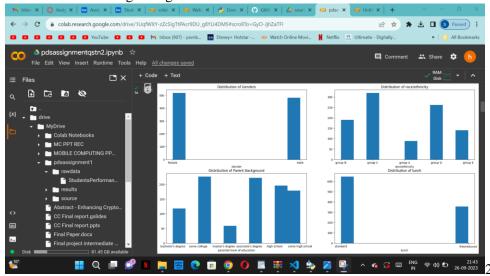
## Step 2: Processing of the data.



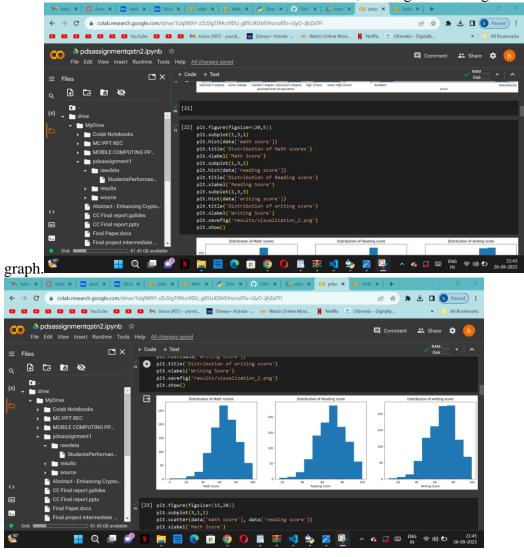
Step 3: Visualization of the data.



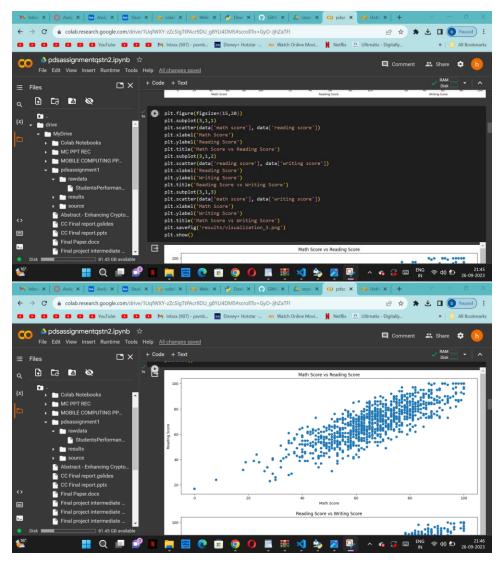
1: Visualization using histogram.

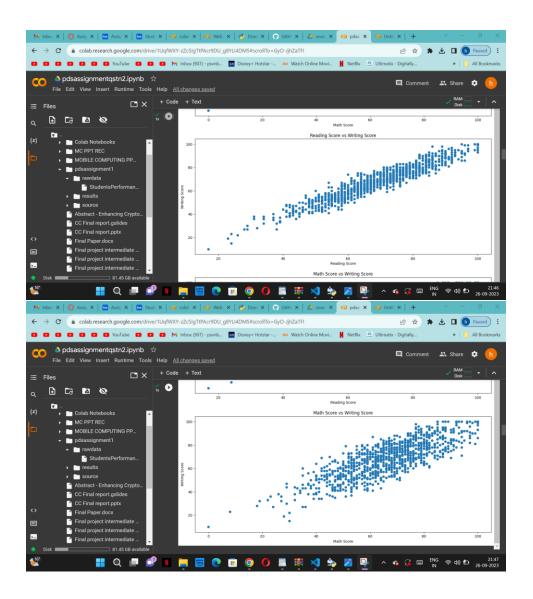


2. Visualization to show distribution between the maths, reading and writing scores on a bar

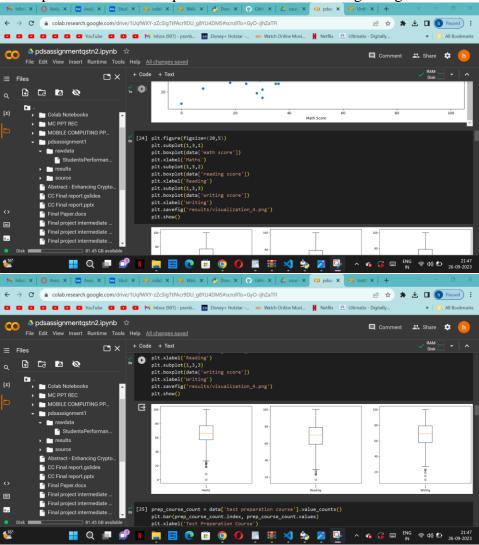


3. Visualization of data in form of scatterplot to show comparison between maths vs reading vs writing scores.

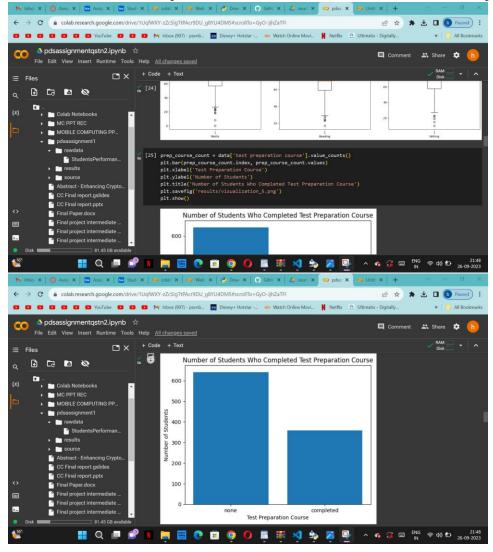




4.Box plot visualization to provide more information regarding the data.



5.Bar chart visualization to provide relation between number of students and test preparation course.



6. Box plot visualization, this visualization can help identify whether there is a difference in test scores between students whose parents have different levels of education.

