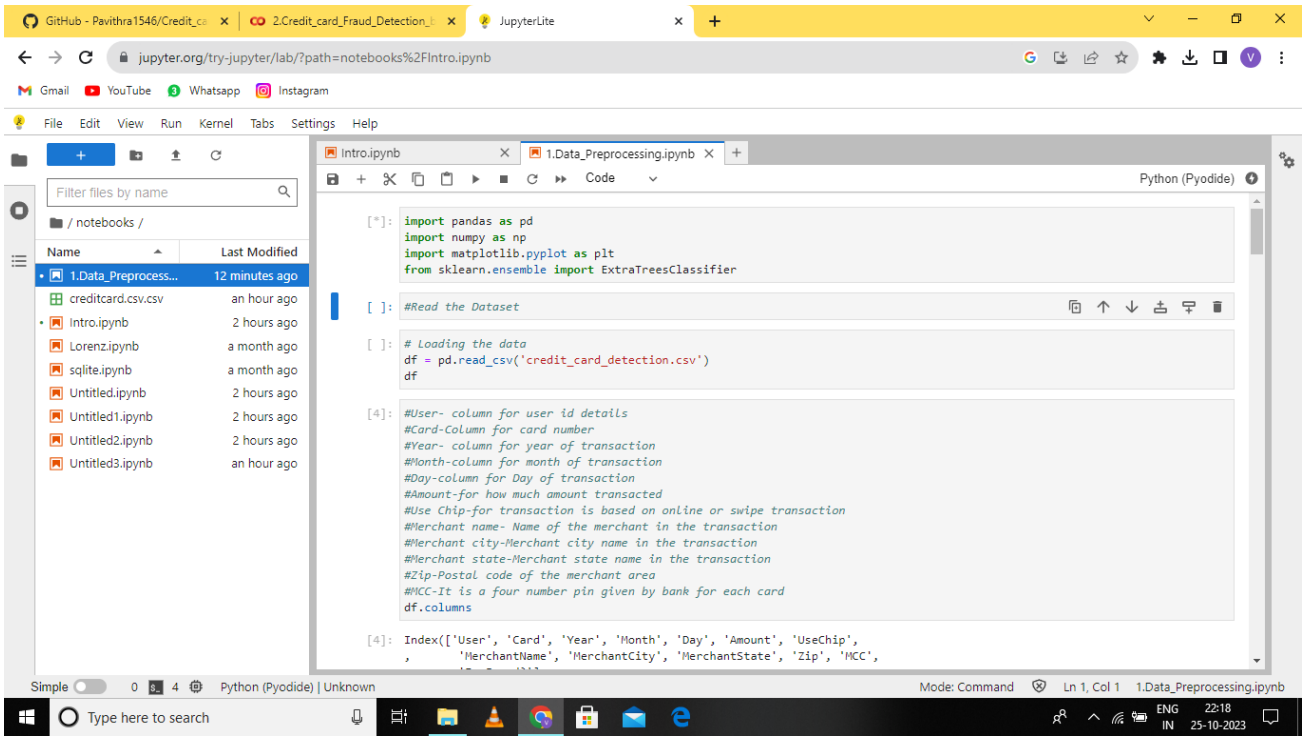
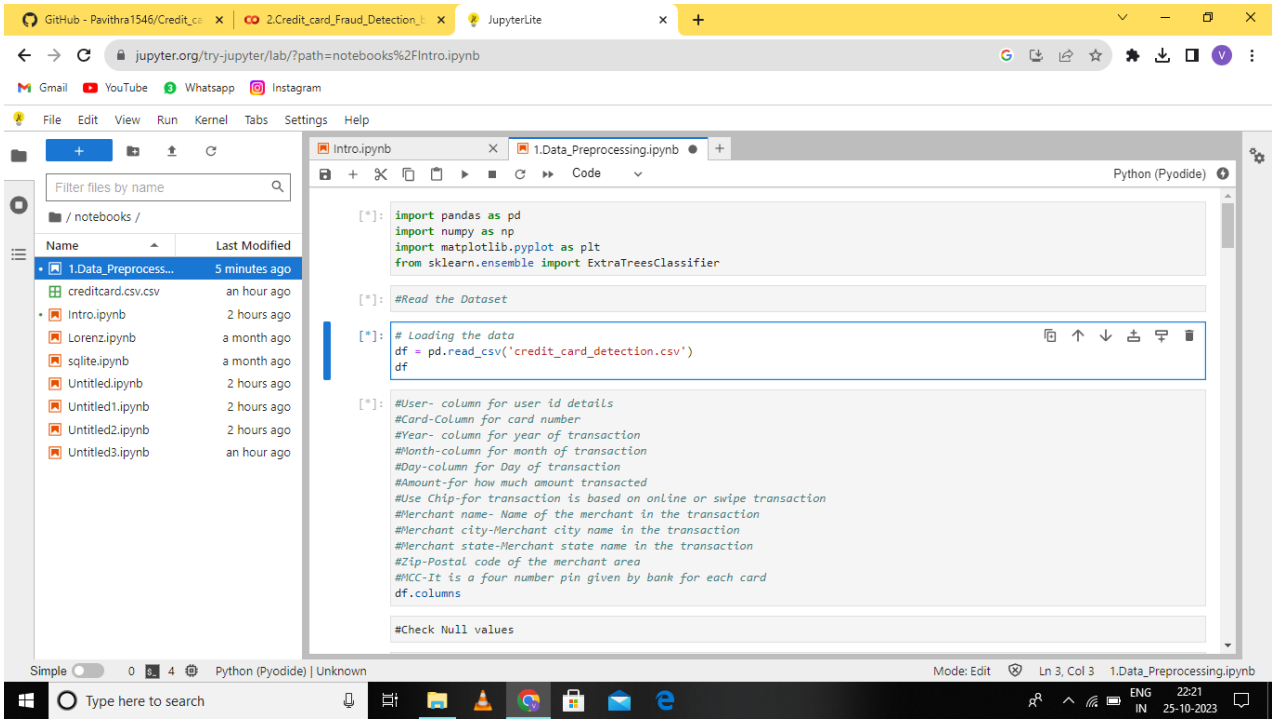
CREDIT CARD FRAUD DETECTION

The dataset presents transactions that occurred in two days, where we have 492 frauds out of 284,807 transactions. The dataset is highly unbalanced, the positive class (frauds) account for 0.172% of all transactions.It contains only numeric input variables which are the result of a PCA transformation. Unfortunately, due to confidentiality issues, we cannot provide the original features and more background information about the data.

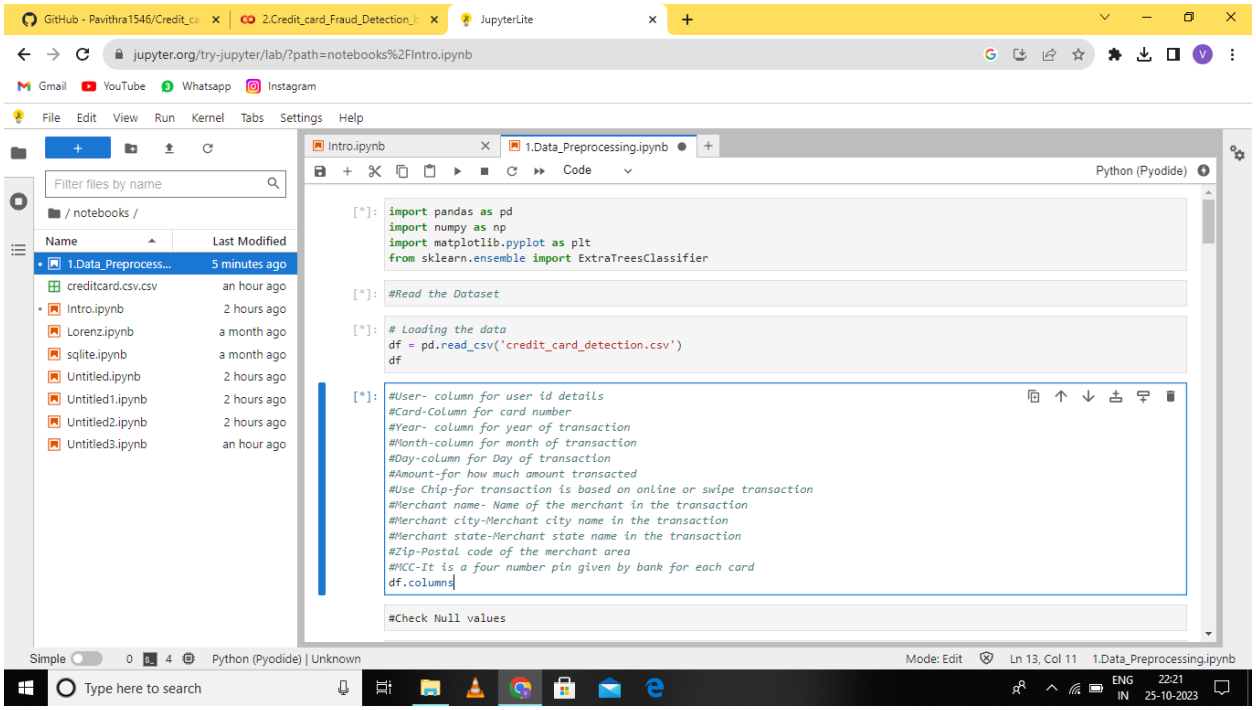
So, first we are importing pandas, numpy, matplotlib, and certain other libraries to make the access given to the data analysis and make the performance better.



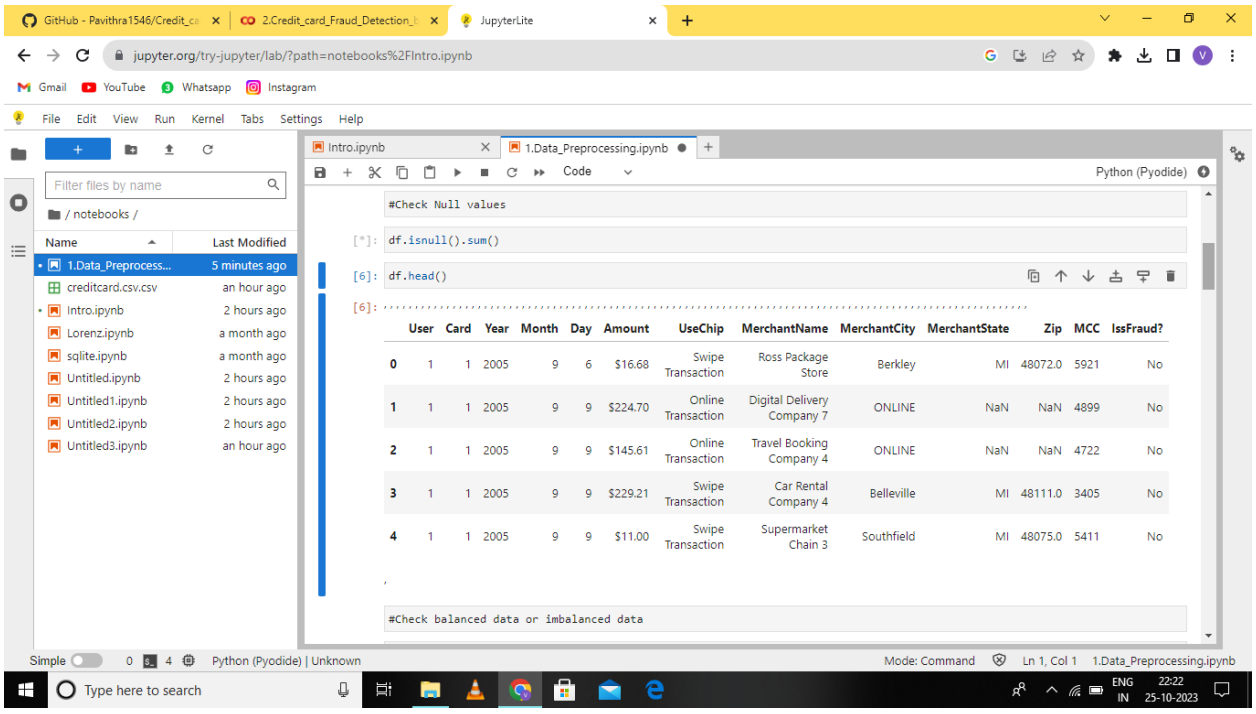
After installing the important libraries that are needed for the program code to succeed, we are reading the CSV file in which the data set is given. Therefore, we run the code for reading the CSV file with the path or the name of the file in which the data set is given.



After reading the CSV file in the format of CSV, we run the code for columns to be read. This is to check for the dataset to be arranged in columns.



Then after, the data set null values are printed with the sum values and for the performance of the data set to be performed this code is run. And then, the head method is used to return a specified number of rows, string from the top.



This is how the code is runned for each of the following section for credit card fraud detection and each part of the code is used for checking of any fraud is happened.