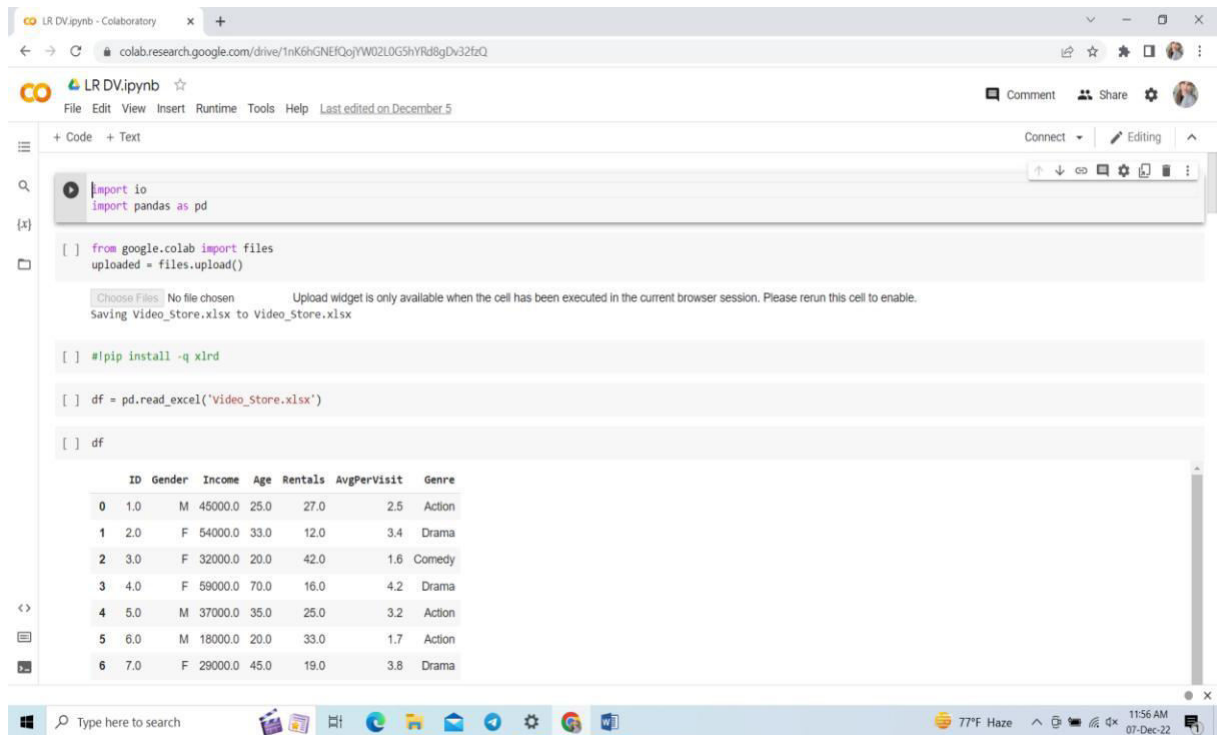


Data Visualization



```
import io
import pandas as pd

from google.colab import files
uploaded = files.upload()

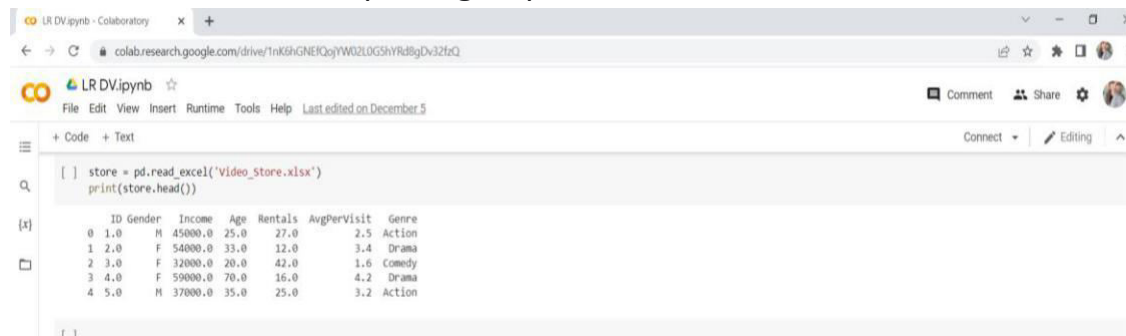
#pip install -q xlrd

df = pd.read_excel('Video_Store.xlsx')

df
```

| | ID | Gender | Income | Age | Rentals | AvgPerVisit | Genre |
|---|-----|--------|---------|------|---------|-------------|--------|
| 0 | 1.0 | M | 45000.0 | 25.0 | 27.0 | 2.5 | Action |
| 1 | 2.0 | F | 54000.0 | 33.0 | 12.0 | 3.4 | Drama |
| 2 | 3.0 | F | 32000.0 | 20.0 | 42.0 | 1.6 | Comedy |
| 3 | 4.0 | F | 59000.0 | 70.0 | 16.0 | 4.2 | Drama |
| 4 | 5.0 | M | 37000.0 | 35.0 | 25.0 | 3.2 | Action |
| 5 | 6.0 | M | 18000.0 | 20.0 | 33.0 | 1.7 | Action |
| 6 | 7.0 | F | 29000.0 | 45.0 | 19.0 | 3.8 | Drama |

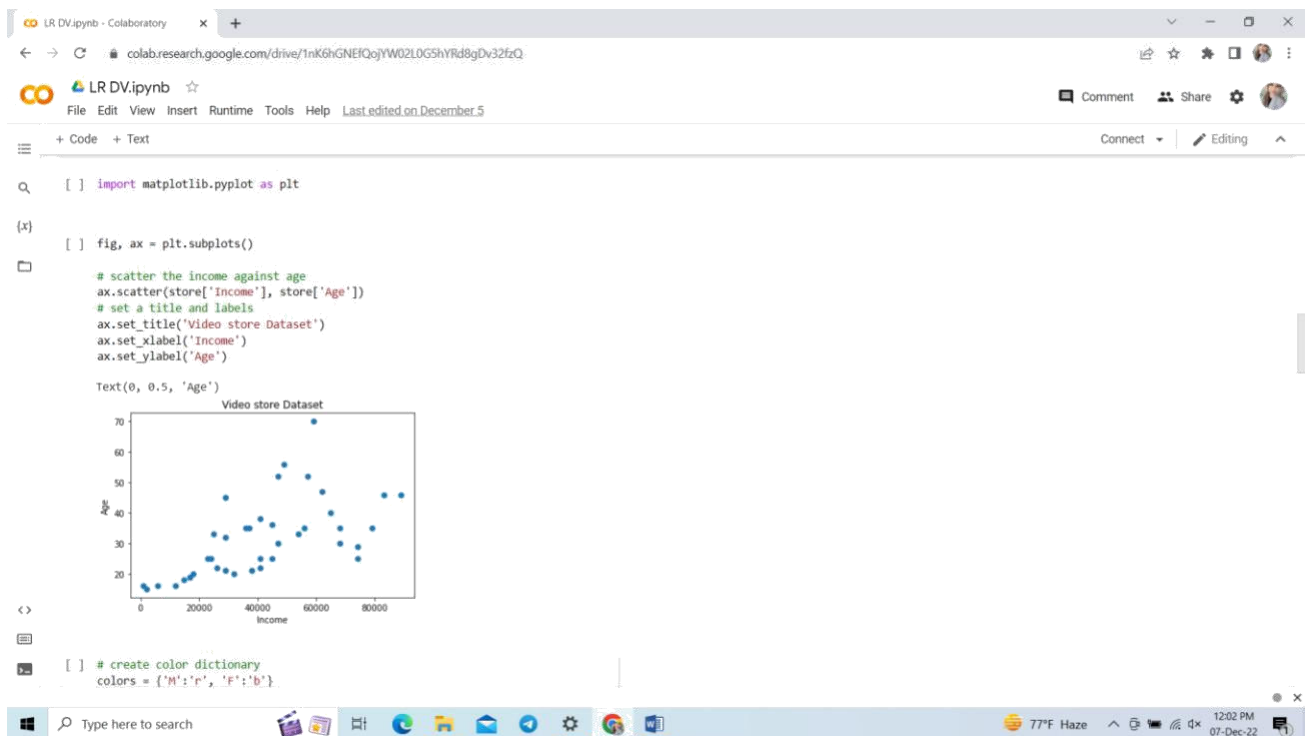
Run the dataset after importing required libraries.



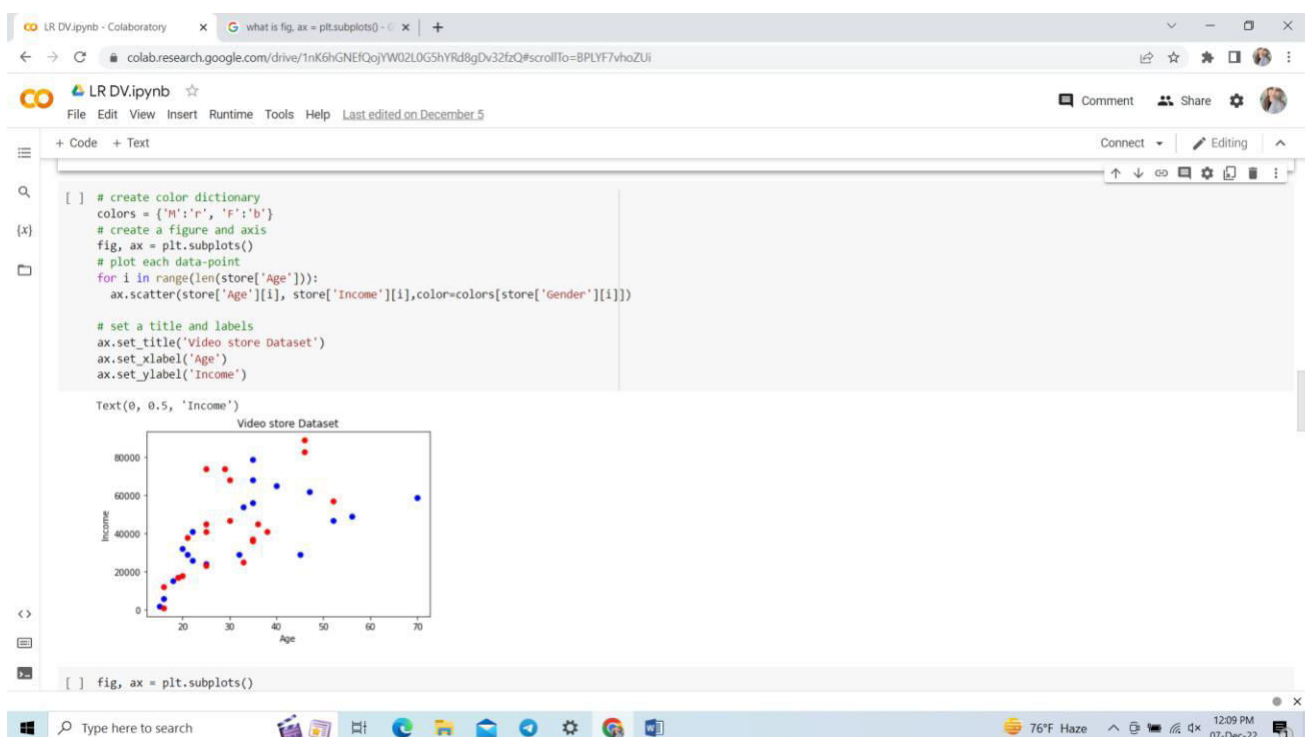
```
store = pd.read_excel('Video_Store.xlsx')
print(store.head())
```

| | ID | Gender | Income | Age | Rentals | AvgPerVisit | Genre |
|---|-----|--------|---------|------|---------|-------------|--------|
| 0 | 1.0 | M | 45000.0 | 25.0 | 27.0 | 2.5 | Action |
| 1 | 2.0 | F | 54000.0 | 33.0 | 12.0 | 3.4 | Drama |
| 2 | 3.0 | F | 32000.0 | 20.0 | 42.0 | 1.6 | Comedy |
| 3 | 4.0 | F | 59000.0 | 70.0 | 16.0 | 4.2 | Drama |
| 4 | 5.0 | M | 37000.0 | 35.0 | 25.0 | 3.2 | Action |

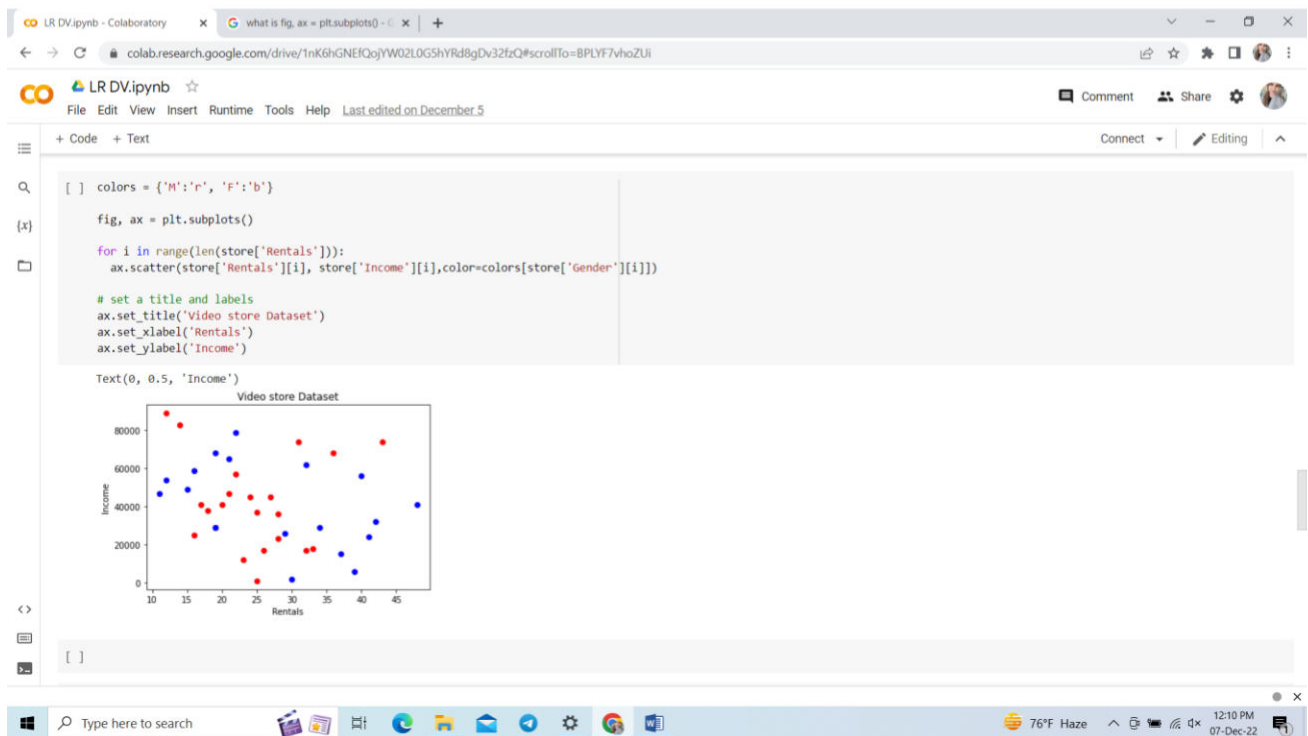
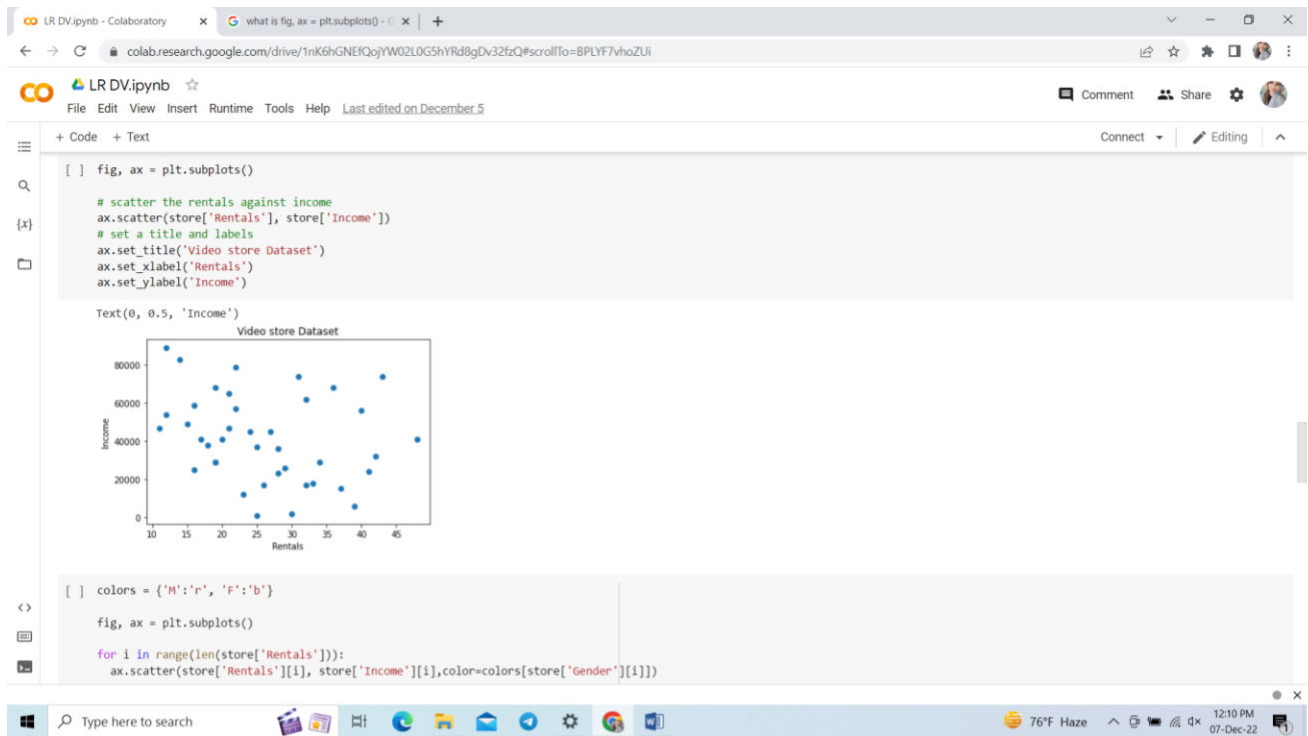
The dataset has been stored in another variable named 'store'.



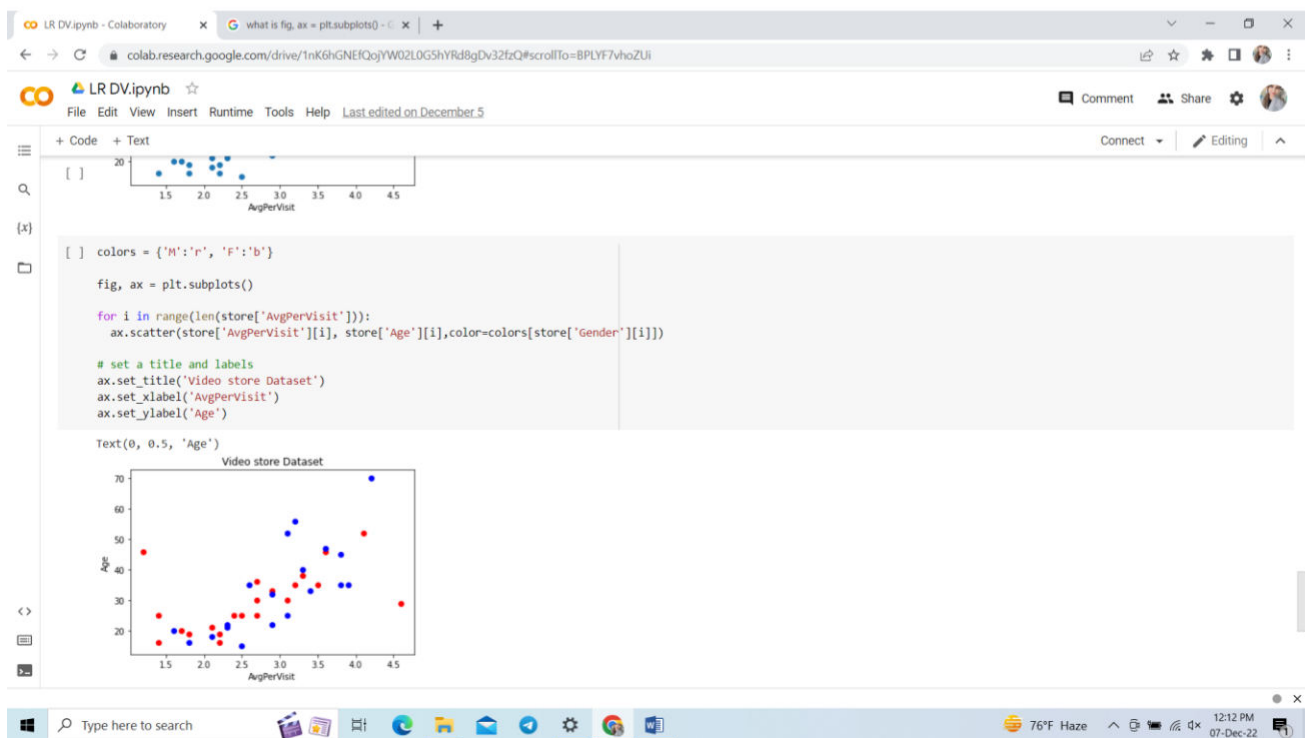
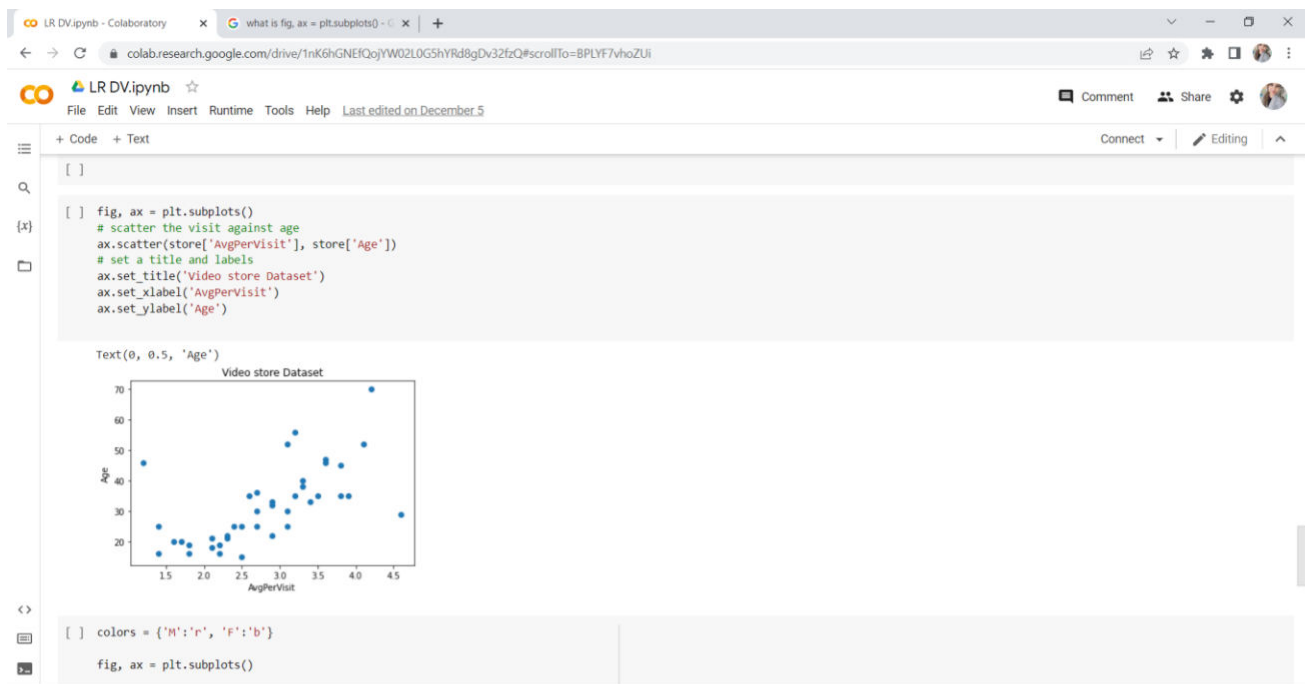
After importing Matplotlib library for data visualization, I've executed the `plt.subplots()` function that returns a tuple containing a figure and axes objects for plot drawing. Here I've scattered the income against age.



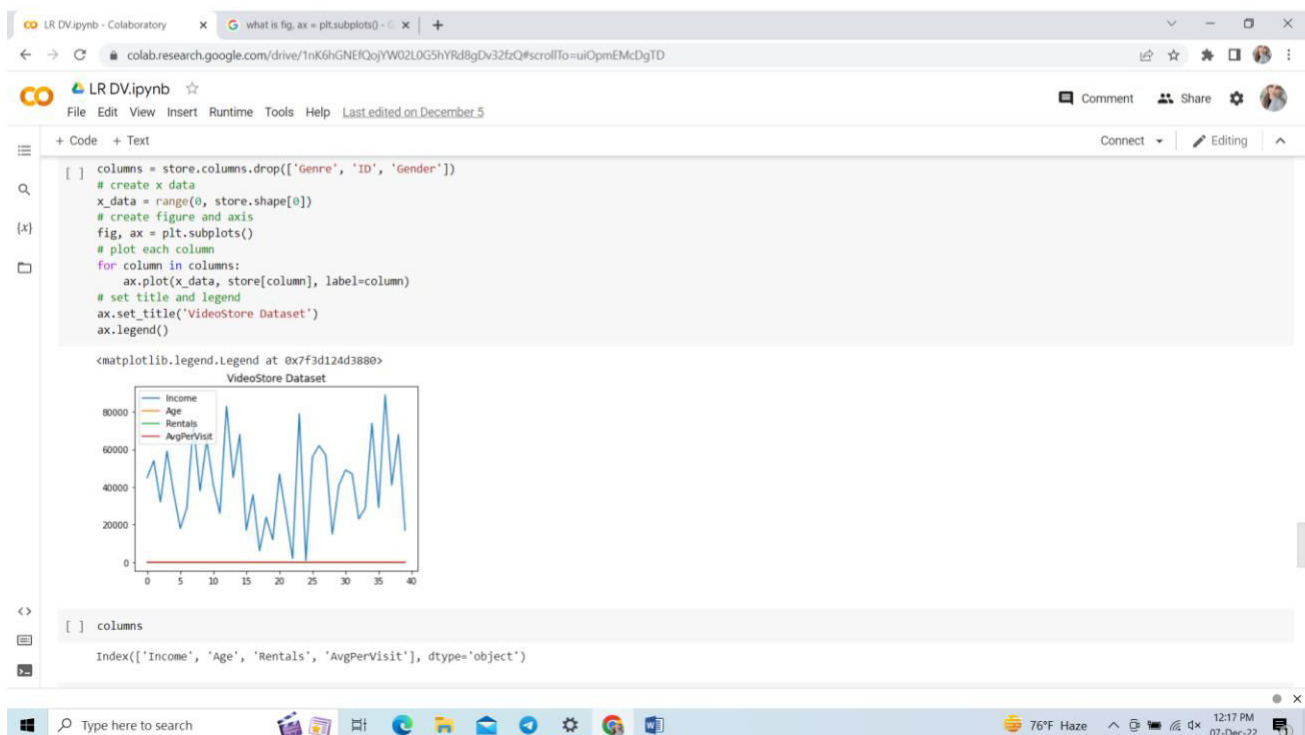
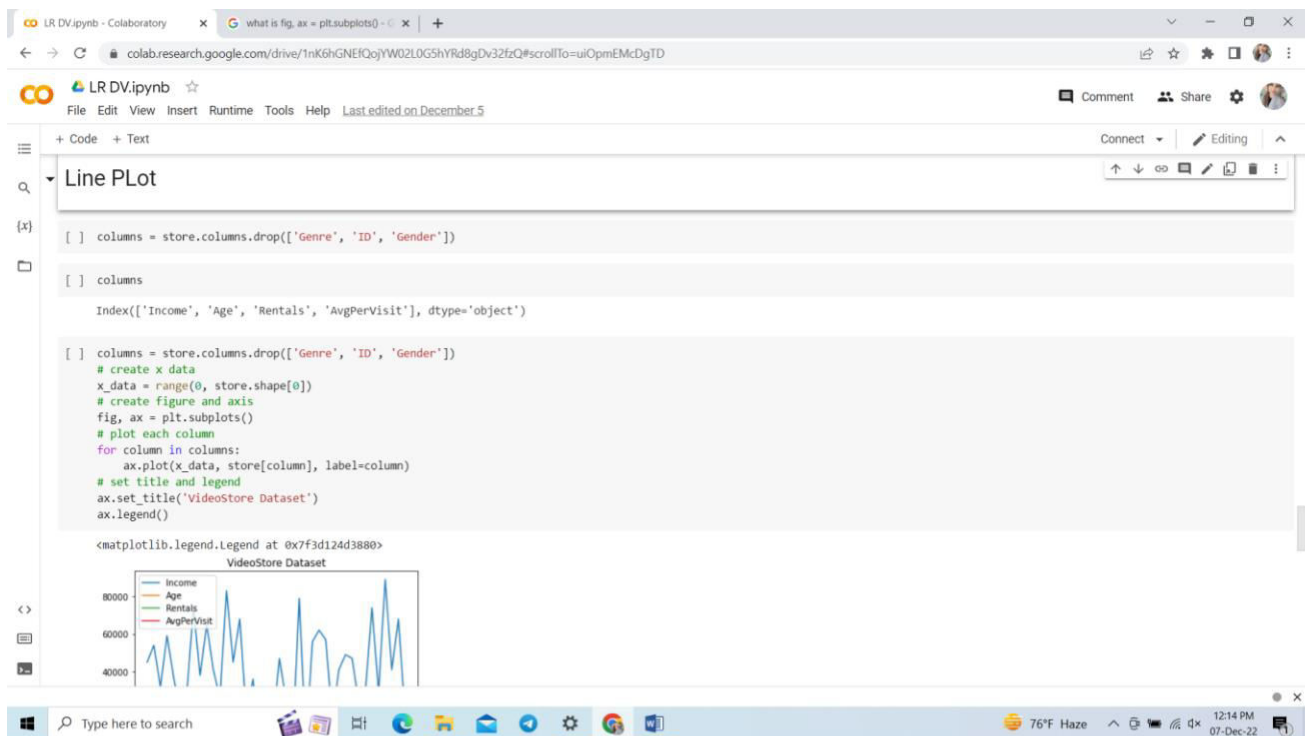
For better understanding, I've added color to the scatter plot; which I've differentiated with the Gender.



Here's the scatter plot of the rentals against income.



Then, I've drawn the scatter plot of AvgPerVisit against age.



For line plotting, at first I've dropped the columns that doesn't contain numerical values as the plot will be generated based on the columns that has numeric values.

