# Assignment # 1


## Noor Fatima 17581556-078


## ➢ Data:

Csv data file is taken from kaggle.com

***Link is here:***

https://www.kaggle.com/dipam7/student-grade-prediction?select=student-mat.csv

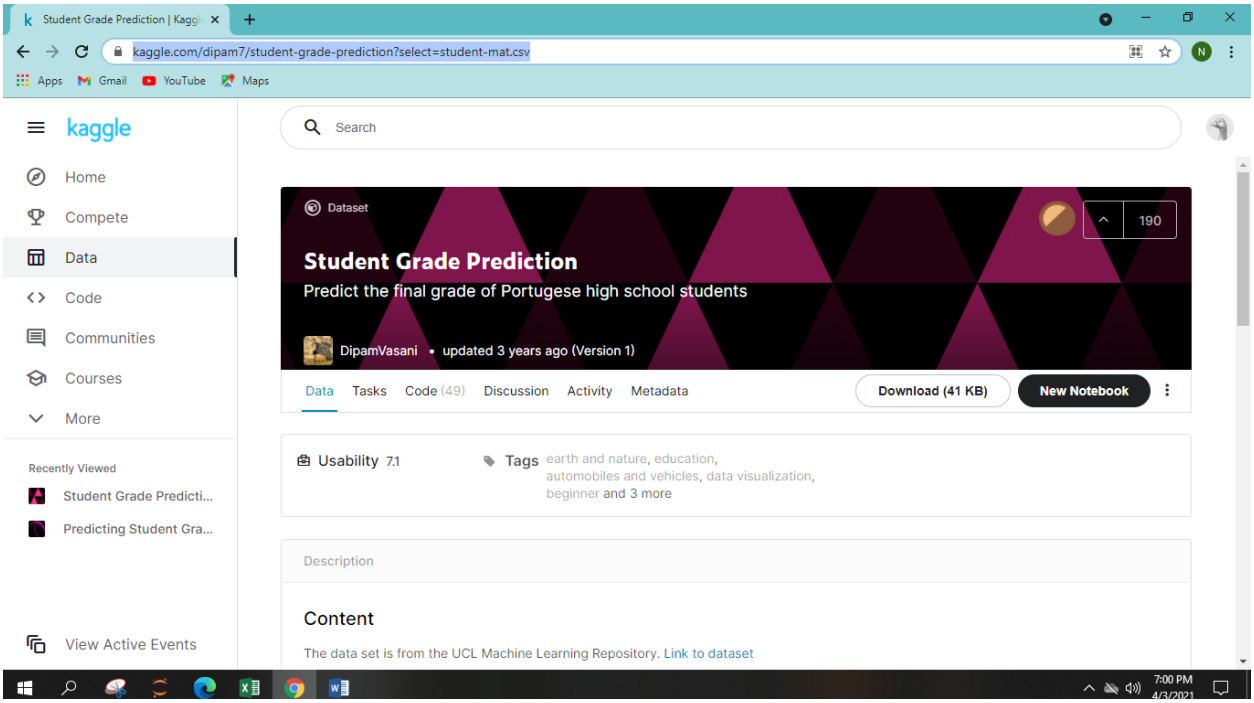
## ➢ Code:

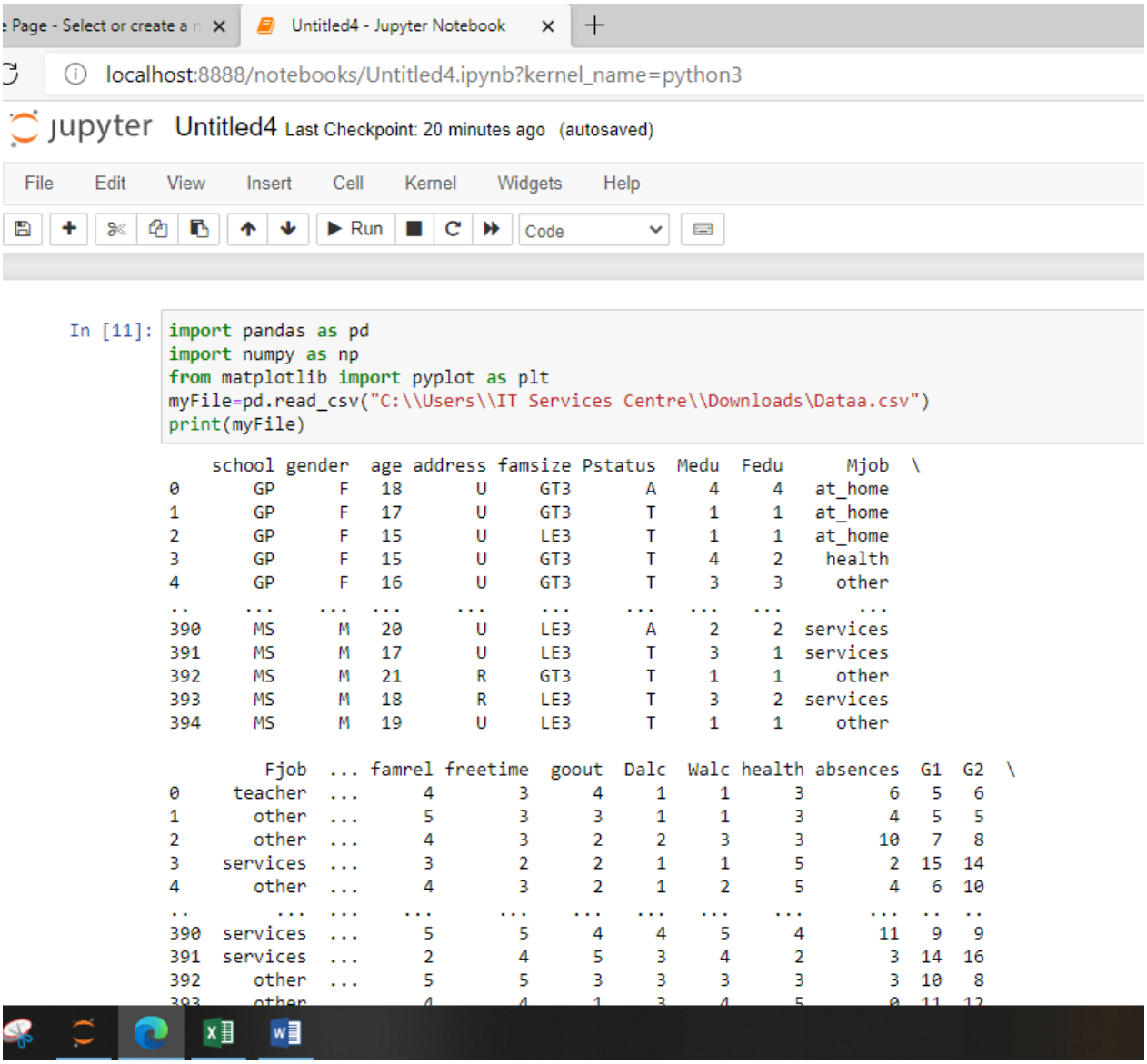
```
import pandas as pd
import numpy as np
from matplotlib import pyplot as plt
myFile=pd.read_csv("C:\\Users\\IT Services Centre\\Downloads\Dataa.csv")
print(myFile)
G = myFile ['gender']
A = myFile ['age']
One = myFile ['G1']
Two = myFile ['G2']
Three = myFile ['G3']
fig = plt.figure()
myaxes = fig.add_axes([0.1,0.1,1.6,1.6,])
myaxes.plot(A,'green',One,'red',Two,'blue',Three,'pink')
```

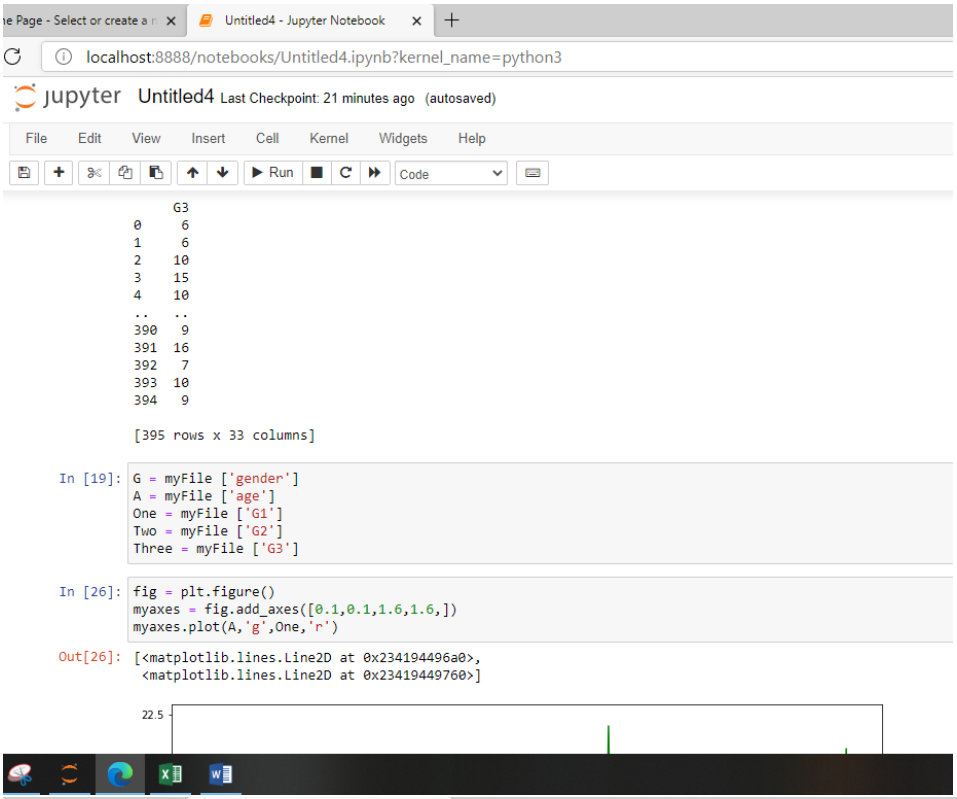
Csv is extracted to Jupyter notebook and plot a graph using following libraries:

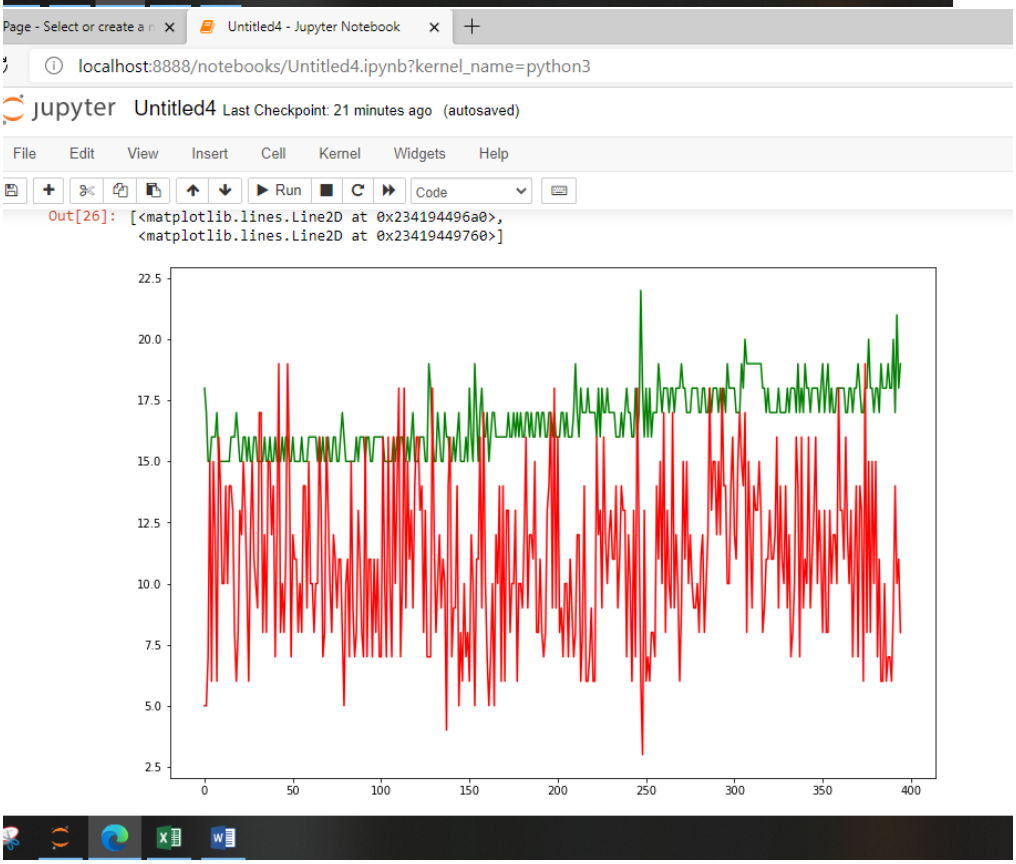
- **Numpy**
- **Matplotlib**
- **Pandas.**

## ➢ Snapshots:

- 


Page - Select or create a
Untitled4 - Jupyter Notebook
localhost:8888/notebooks/Untitled4.ipynb?kernel_name=python3
jupyter Untitled4 Last Checkpoint: 20 minutes ago (autosaved)
File Edit View Insert Cell Kernel Widgets Help
Run
Code
In [11]:
import pandas as pd
import numpy as np
from matplotlib import pyplot as plt
myFile=pd.read_csv("C:\\Users\\IT Services Centre\\Downloads\Dataa.csv")
print(myFile)
school gender age address famsize Pstatus Medu Fedu Mjob \
0 GP F 18 U GT3 A 4 4 at_home
1 GP F 17 U GT3 T 1 1 at_home
2 GP F 15 U LE3 T 1 1 at_home
3 GP F 15 U GT3 T 4 2 health
4 GP F 16 U GT3 T 3 3 other
.. ... ... ... ... ... ... ... ... ...
390 MS M 20 U LE3 A 2 2 services
391 MS M 17 U LE3 T 3 1 services
392 MS M 21 R GT3 T 1 1 other
393 MS M 18 R LE3 T 3 2 services
394 MS M 19 U LE3 T 1 1 other
Fjob ... famrel freetime goout Dalc Walc health absences G1 G2 \
0 teacher ... 4 3 4 1 1 3 6 5 6
1 other ... 5 3 3 1 1 3 4 5 5
2 other ... 4 3 2 2 3 3 10 7 8
3 services ... 3 2 2 1 1 5 2 15 14
4 other ... 4 3 2 1 2 5 4 6 10
.. ... ... ... ... ... ... ... ... ... .. ..
390 services ... 5 5 4 4 5 4 11 9 9
391 services ... 2 4 5 3 4 2 3 14 16
392 other ... 5 5 3 3 3 3 3 10 8


Page - Select or create a
Untitled4 - Jupyter Notebook
localhost:8888/notebooks/Untitled4.ipynb?kernel_name=python3
jupyter Untitled4 Last Checkpoint: 21 minutes ago (autosaved)
File Edit View Insert Cell Kernel Widgets Help
Run Code
G3
0 6
1 6
2 10
3 15
4 10
.. ..
390 9
391 16
392 7
393 10
394 9
[395 rows x 33 columns]
In [19]:
G = myFile ['gender']
A = myFile ['age']
One = myFile ['G1']
Two = myFile ['G2']
Three = myFile ['G3']
In [26]:
fig = plt.figure()
myaxes = fig.add_axes([0.1,0.1,1.6,1.6,])
myaxes.plot(A,'g',One,'r')
Out[26]:
[<matplotlib.lines.Line2D at 0x234194496a0>,
<matplotlib.lines.Line2D at 0x23419449760>]
22.5


Page - Select or create a
Untitled4 - Jupyter Notebook
localhost:8888/notebooks/Untitled4.ipynb?kernel_name=python3
jupyter Untitled4 Last Checkpoint: 21 minutes ago (autosaved)
File Edit View Insert Cell Kernel Widgets Help
Run Code
Out[26]:
[<matplotlib.lines.Line2D at 0x234194496a0>,
<matplotlib.lines.Line2D at 0x23419449760>]
22.5
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
50
100
150
200
250
300
350
400

Untitled4 - Jupyter Notebook

localhost:8888/notebooks/Untitled4.ipynb?kernel_name=python3

Untitled4 Last Checkpoint: 26 minutes ago (unsaved changes)

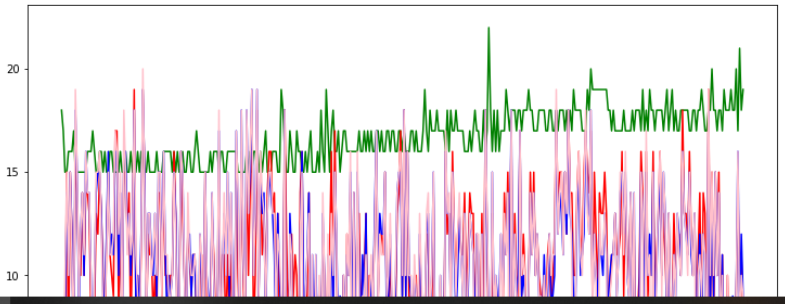
Edit View Insert Cell Kernel Widgets Help

Run Code

In [19]:
```
G = myFile ['gender']
A = myFile ['age']
One = myFile ['G1']
Two = myFile ['G2']
Three = myFile ['G3']
```

In [30]:
```
fig = plt.figure()
myaxes = fig.add_axes([0.1,0.1,1.6,1.6,])
myaxes.plot(A,'green',One,'red',Two,'blue',Three,'pink')
```

Out[30]:
```
[<matplotlib.lines.Line2D at 0x2341c3c4e80>,
 <matplotlib.lines.Line2D at 0x2341c3c4d30>,
 <matplotlib.lines.Line2D at 0x2341c3c4fd0>,
 <matplotlib.lines.Line2D at 0x2341c3d10d0>]
```




Page - Select or create a
Untitled4 - Jupyter Notebook
localhost:8888/notebooks/Untitled4.ipynb?kernel_name=python3
jupyter Untitled4 Last Checkpoint: 26 minutes ago (unsaved changes)
File Edit View Insert Cell Kernel Widgets Help
Run Code