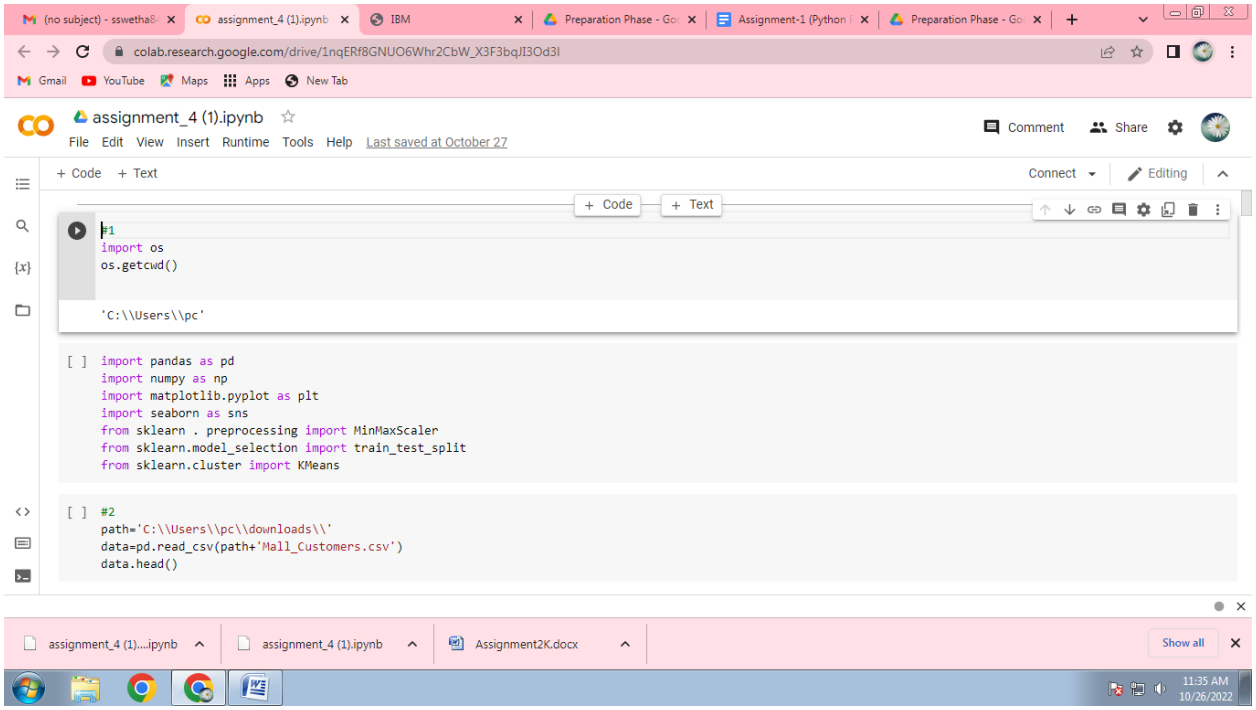
Assignment -4

Assignment Date	8 October 2022
Student Name	M.Shehha
Student Roll Number	E1194034
Maximum Marks	2 Marks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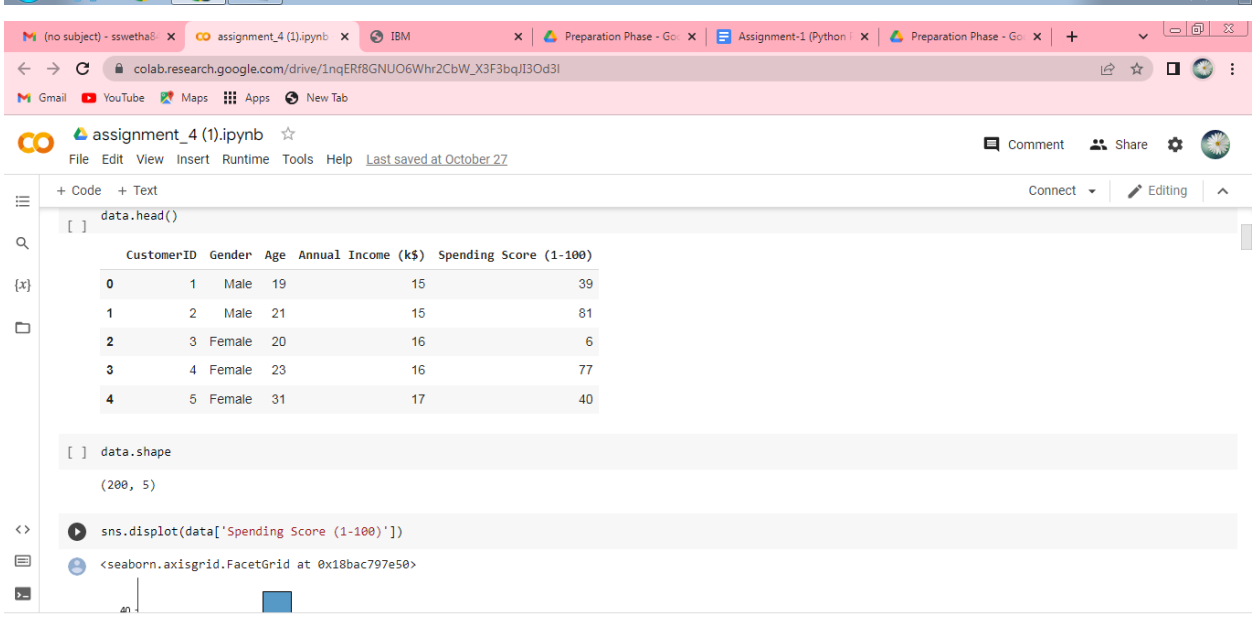
#1
import os
os.getcwd()
'C:\\Users\\pc'
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
from sklearn . preprocessing import MinMaxScaler
from sklearn.model_selection import train_test_split
from sklearn.cluster import KMeans
#2
path='C:\\Users\\pc\\downloads\\'
data=pd.read_csv(path+'Mall_Customers.csv')
data.head()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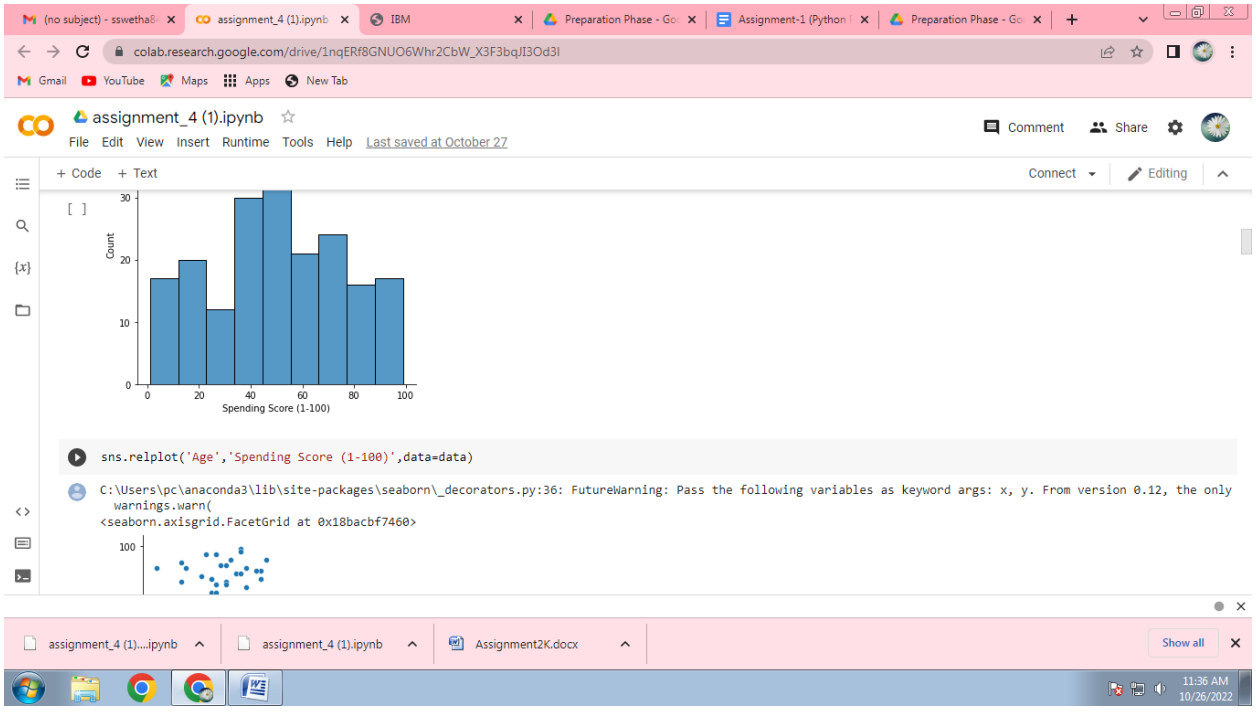
data.head()
CustomerID Gender Age Annual Income (k$) Spending Score (1-100)
0 1 Male 19 15 39
1 2 Male 21 15 81
2 3 Female 20 16 6
3 4 Female 23 16 77
4 5 Female 31 17 40
data.shape
(200, 5)
sns.displot(data['Spending Score (1-100)'])
<seaborn.axisgrid.FacetGrid at 0x18bac797e50>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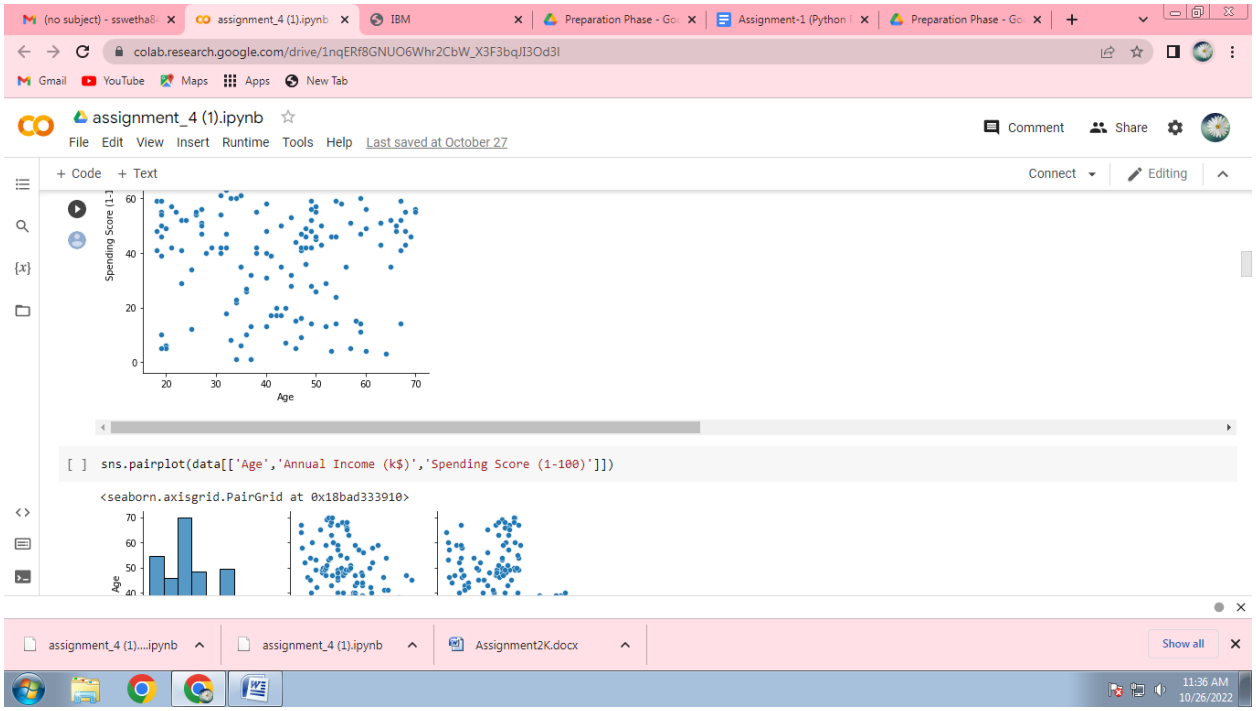
Count
Spending Score (1-100)
sns.relplot('Age','Spending Score (1-100)',data=data)
C:\Users\pc\anaconda3\lib\site-packages\seaborn_decorators.py:36: FutureWarning: Pass the following variables as keyword args: x, y. From version 0.12, the only
warnings.warn(
<seaborn.axisgrid.FacetGrid at 0x18bacbf7460>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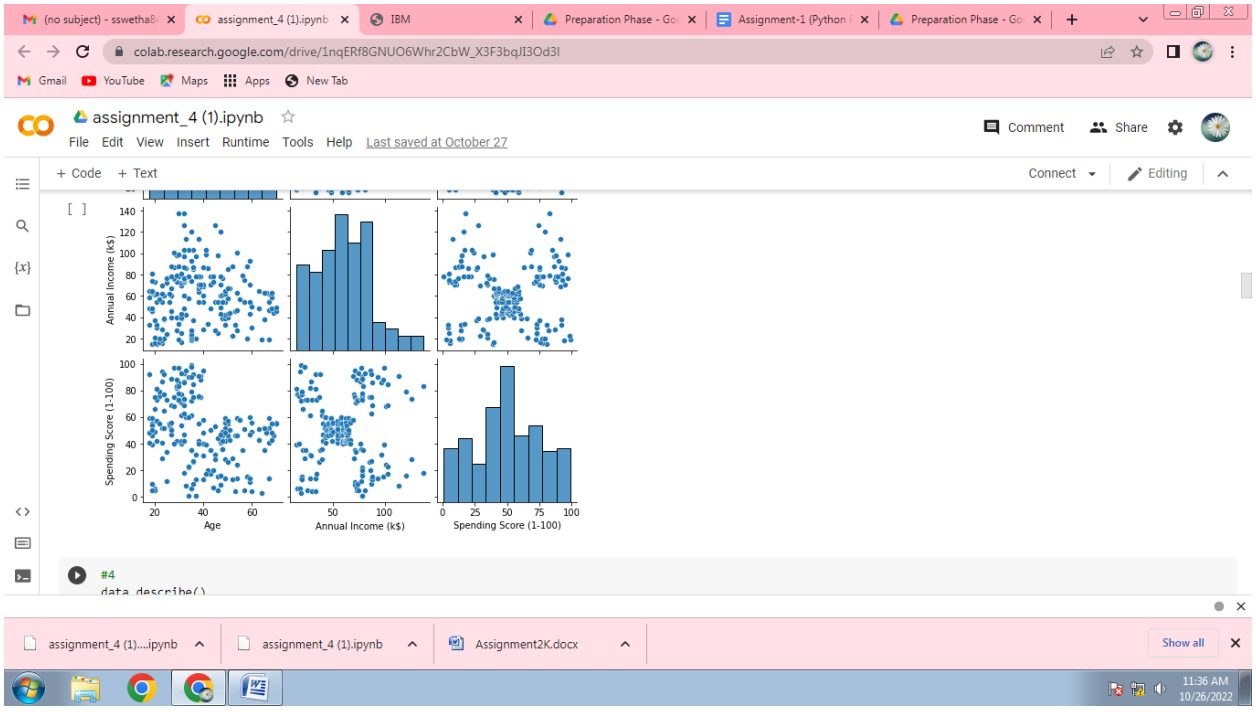
Spending Score (1-100)
Age
sns.pairplot(data[['Age','Annual Income (k$)','Spending Score (1-100)']])
<seaborn.axisgrid.PairGrid at 0x18bad333910>



	CustomerID	Age	Annual Income (k$)	Spending Score (1-100)
count	200.000000	200.000000	200.000000	200.000000
mean	100.500000	38.850000	60.560000	50.200000
std	57.879185	13.969007	26.264721	25.823522
min	1.000000	18.000000	15.000000	1.000000
25%	50.750000	28.750000	41.500000	34.750000
50%	100.500000	36.000000	61.500000	50.000000
75%	150.250000	49.000000	78.000000	73.000000
max	200.000000	70.000000	137.000000	99.000000

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max	200.000000	70.000000	137.000000	99.000000

```
#5
data.isnull().sum()
```

```
CustomerID              0
Gender                  0
Age                     0
Annual Income (k$)      0
Spending Score (1-100)  0
dtype: int64
```

```
data.skew()
```

```
CustomerID              0.000000
Age                     0.485569
Annual Income (k$)      0.321843
Spending Score (1-100) -0.047220
dtype: float64
```

```
sns.displot(data['Age'],kind='kde')
```

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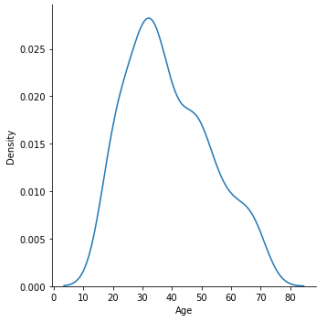
```
sns.displot(data['Age'],kind='kde')
```

```
<seaborn.axisgrid.FacetGrid at 0x22eafe44b80>
```



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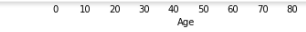
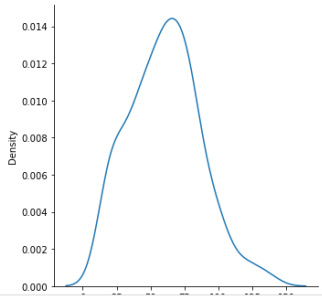



```
sns.displot(data['Annual Income (k$)'],kind='kde')
```

```
<seaborn.axisgrid.FacetGrid at 0x22eafe44df0>
```



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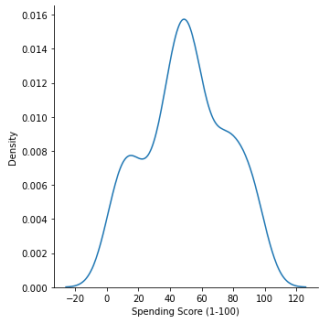
```
[ ] sns.displot(data['Spending Score (1-100)'],kind='kde')
```

```
<seaborn.axisgrid.FacetGrid at 0x22eaff16550>
```



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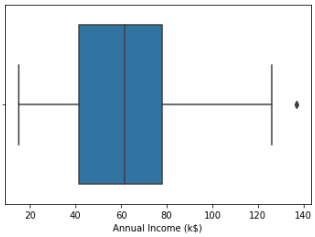
```
sns.boxplot(data['Annual Income (k$)'])
```

```
C:\Users\pc\anaconda3\lib\site-packages\seaborn\_decorators.py:36: FutureWarning: Pass the following variable as a keyword arg: x. From version 0.12, the only val
  warnings.warn(
<AxesSubplot:xlabel='Annual Income (k$)'>
```



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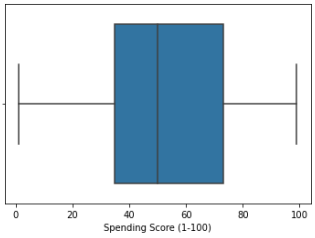
```
sns.boxplot(data['Spending Score (1-100)'])
```

```
C:\Users\pc\anaconda3\lib\site-packages\seaborn\_decorators.py:36: FutureWarning: Pass the following variable as a keyword arg: x. From version 0.12, the only val
  warnings.warn(
<AxesSubplot:xlabel='Spending Score (1-100)'>
```



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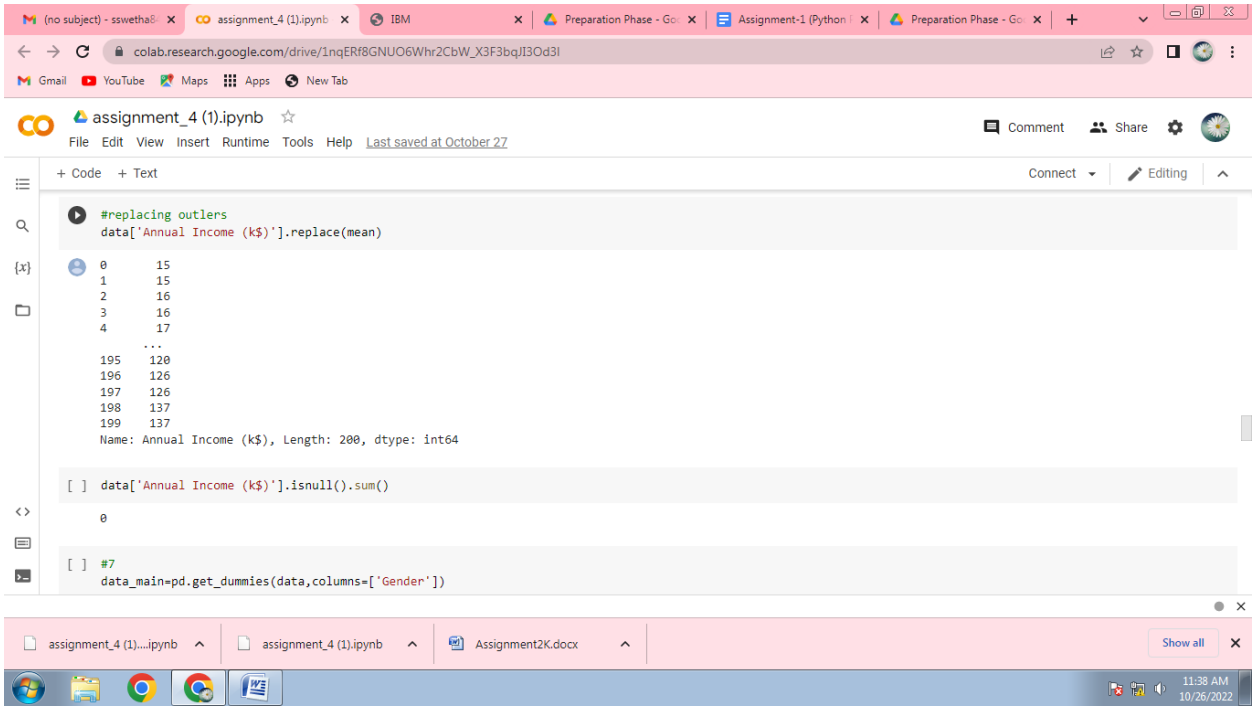
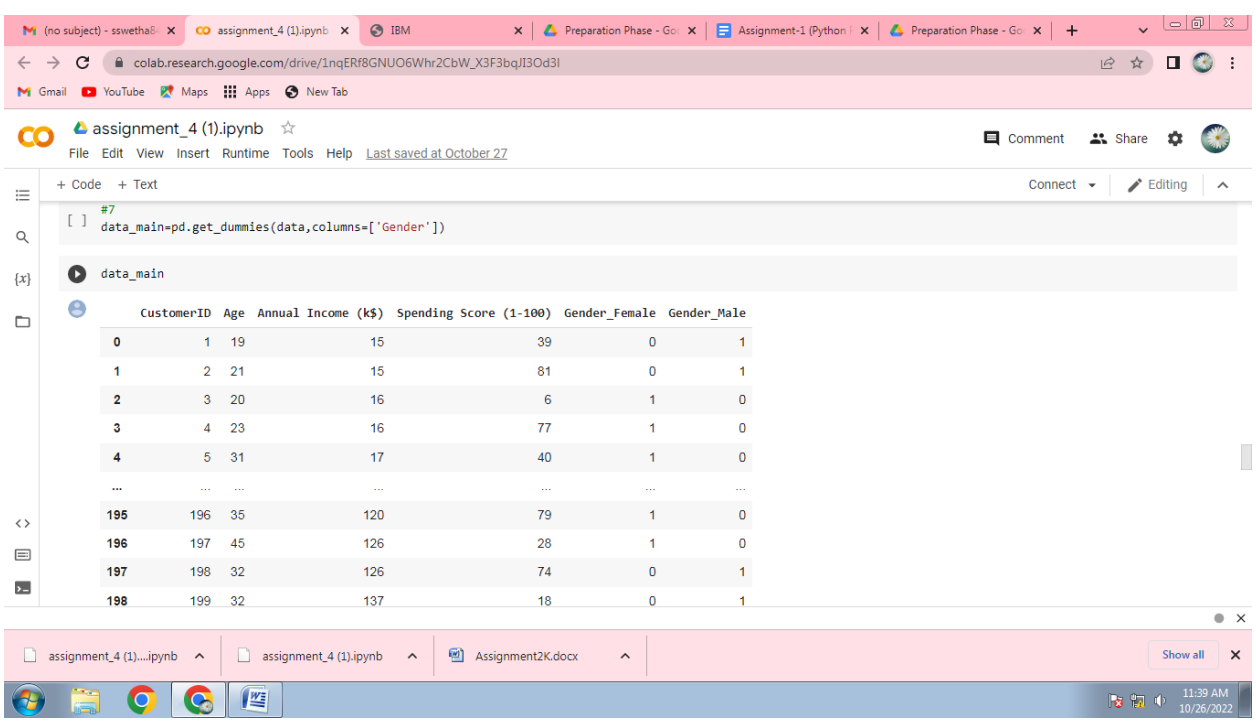
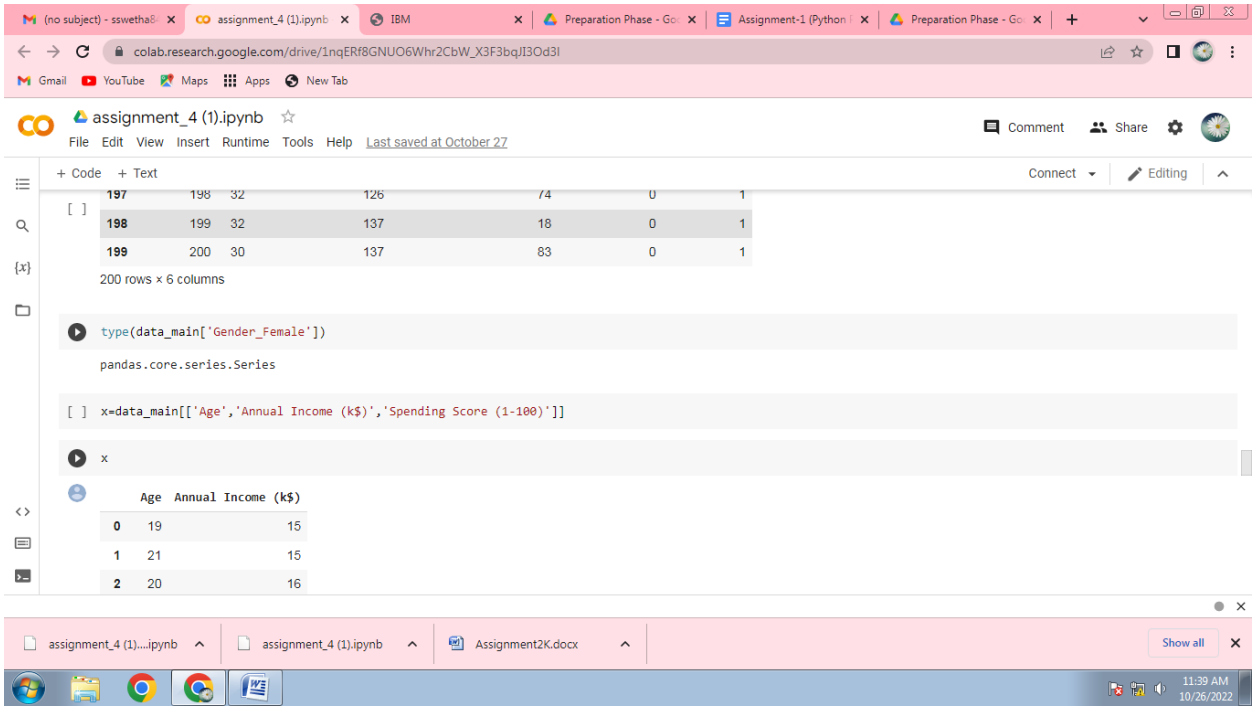




	CustomerID	Age	Annual Income (k$)	Spending Score (1-100)	Gender_Female	Gender_Male
0	1	19	15	39	0	1
1	2	21	15	81	0	1
2	3	20	16	6	1	0
3	4	23	16	77	1	0
4	5	31	17	40	1	0
...	...	...	...	...	...	...
195	196	35	120	79	1	0
196	197	45	126	28	1	0
197	198	32	126	74	0	1
198	199	32	137	18	0	1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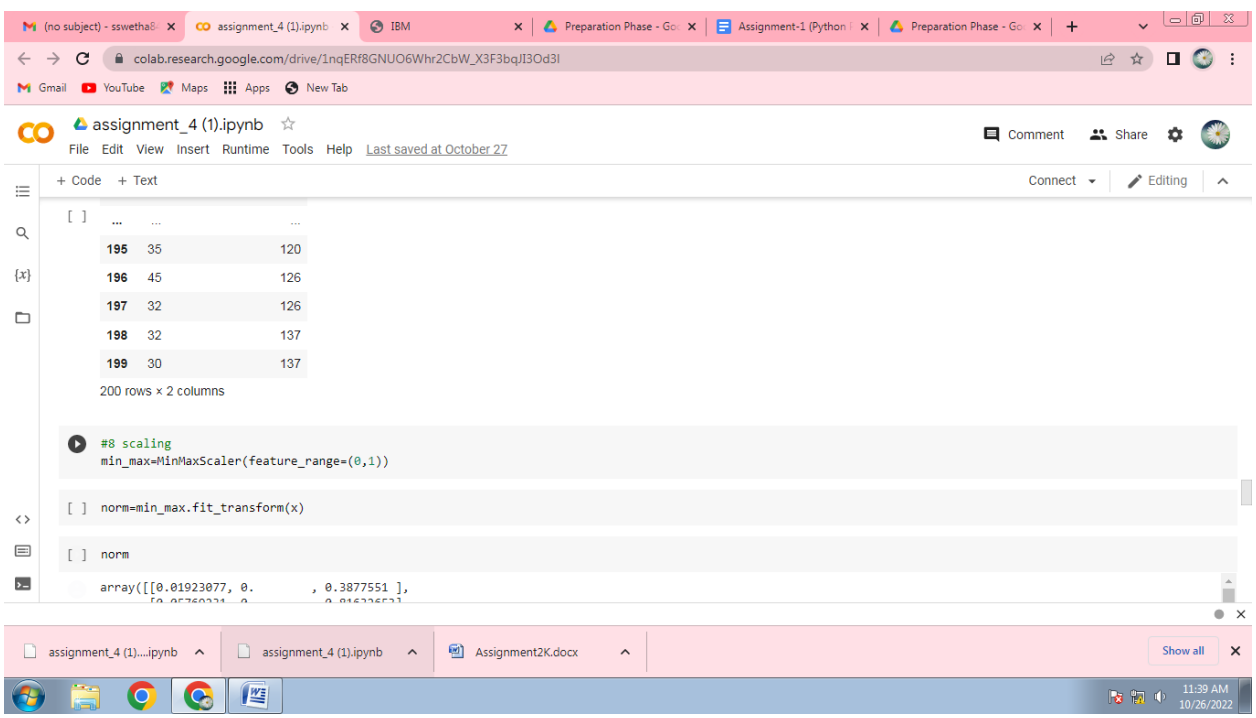
197 198 32 126 74 0 1
198 199 32 137 18 0 1
199 200 30 137 83 0 1
200 rows × 6 columns
type(data_main['Gender_Female'])
pandas.core.series.Series
x=data_main[['Age','Annual Income (k$)','Spending Score (1-100)']]
x
Age Annual Income (k$)
0 19 15
1 21 15
2 20 16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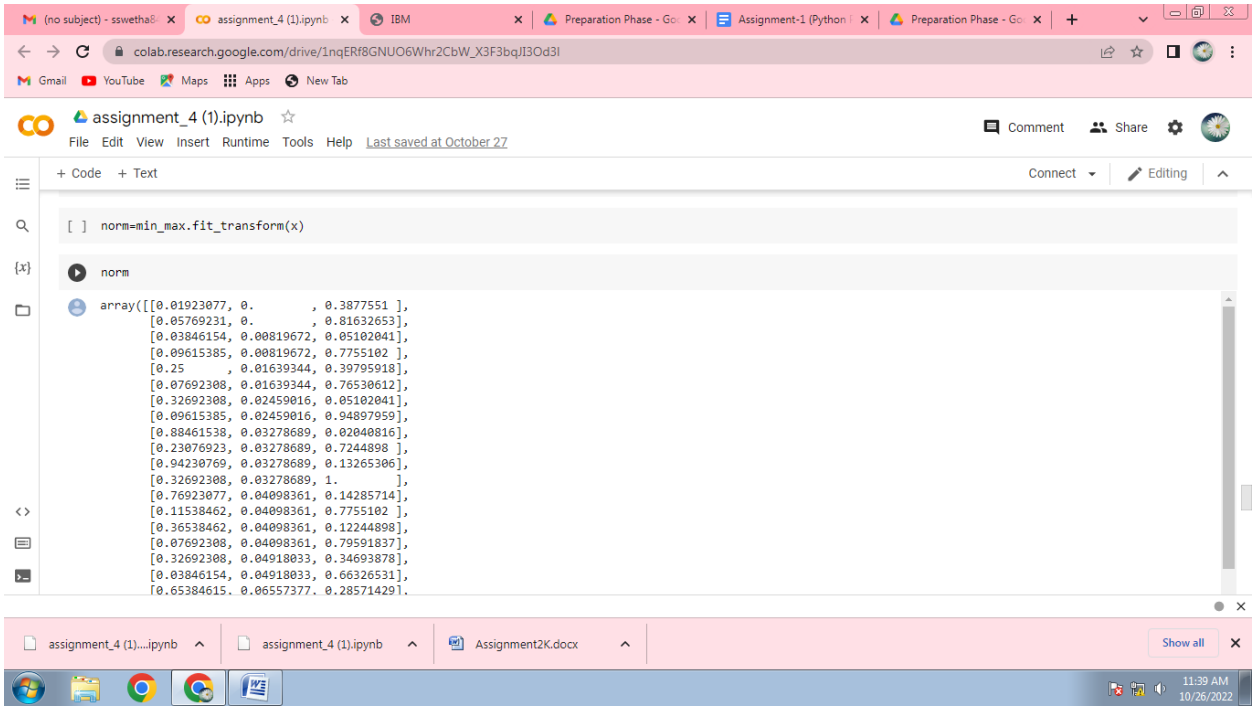
... ...
195 35 120
196 45 126
197 32 126
198 32 137
199 30 137
200 rows × 2 columns
#8 scaling
min_max=MinMaxScaler(feature_range=(0,1))
norm=min_max.fit_transform(x)
norm
array([[0.01923077, 0. , 0.3877551],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[ ] norm=min_max.fit_transform(x)
norm
array([[0.01923077, 0. , 0.3877551],
[0.05769231, 0. , 0.81632653],
[0.03846154, 0.00819672, 0.05102041],
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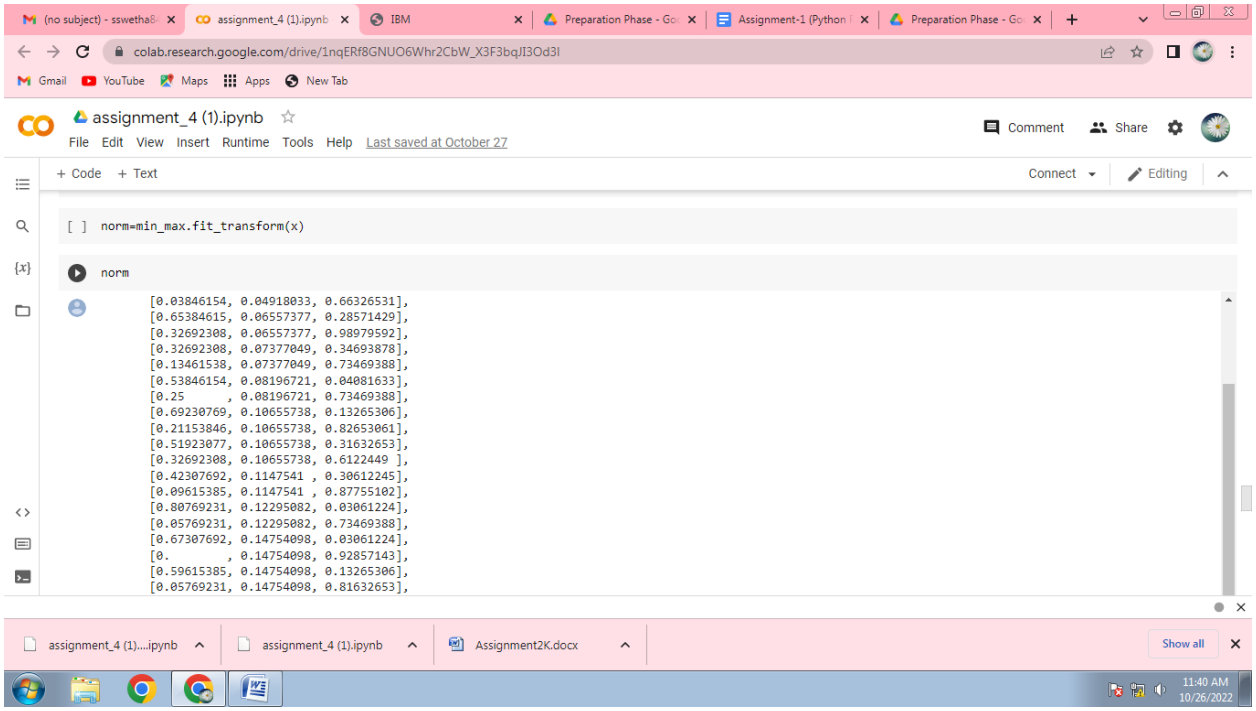
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[ ] norm=min_max.fit_transform(x)
norm
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[0.32692308, 0.06557377, 0.98979592],
[0.32692308, 0.07377049, 0.34693878],
[0.13461538, 0.07377049, 0.73469388],
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[0.25 , 0.08196721, 0.73469388],
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[0.05769231, 0.14754098, 0.81632653],
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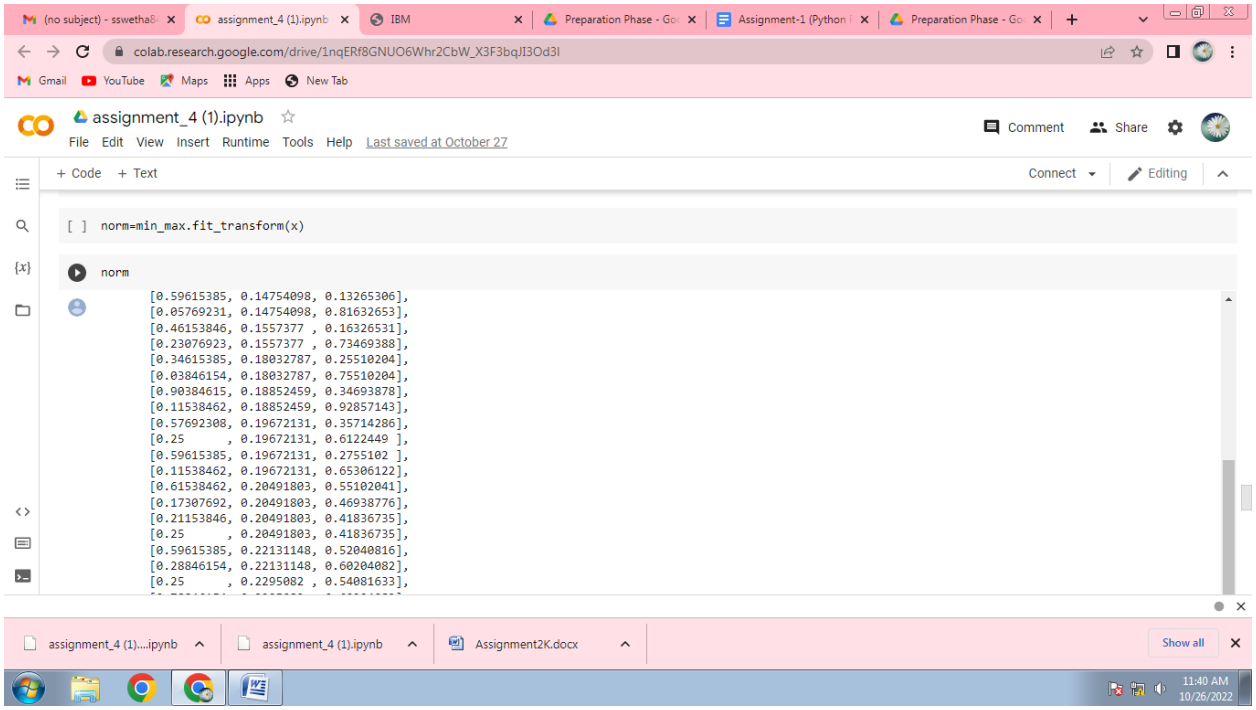
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[ ] norm=min_max.fit_transform(x)
norm
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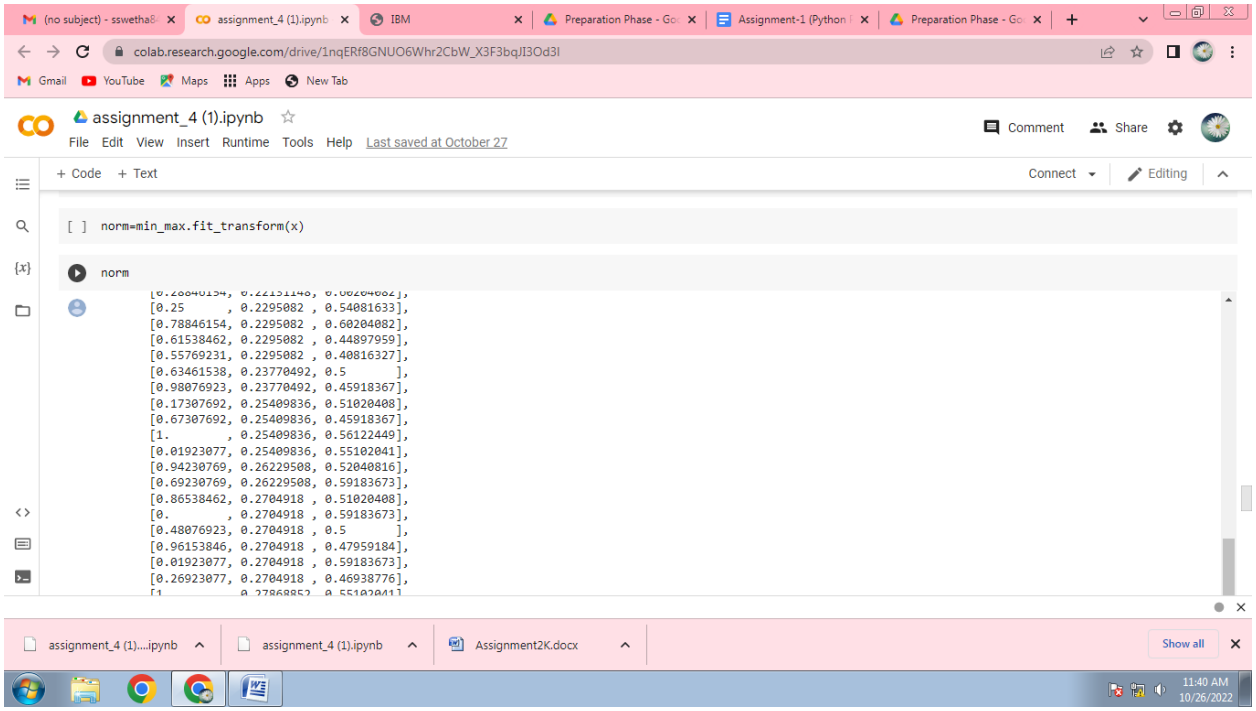
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[ ] norm=min_max.fit_transform(x)
norm
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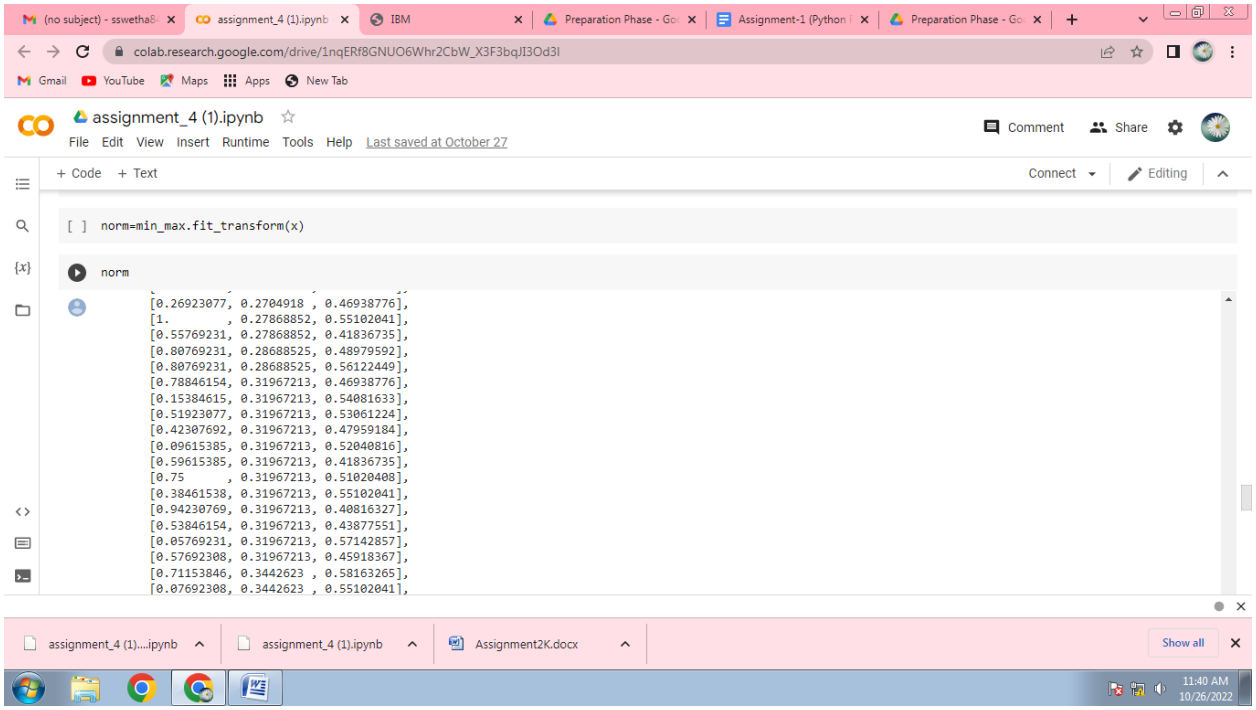
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[ ] norm=min_max.fit_transform(x)
norm
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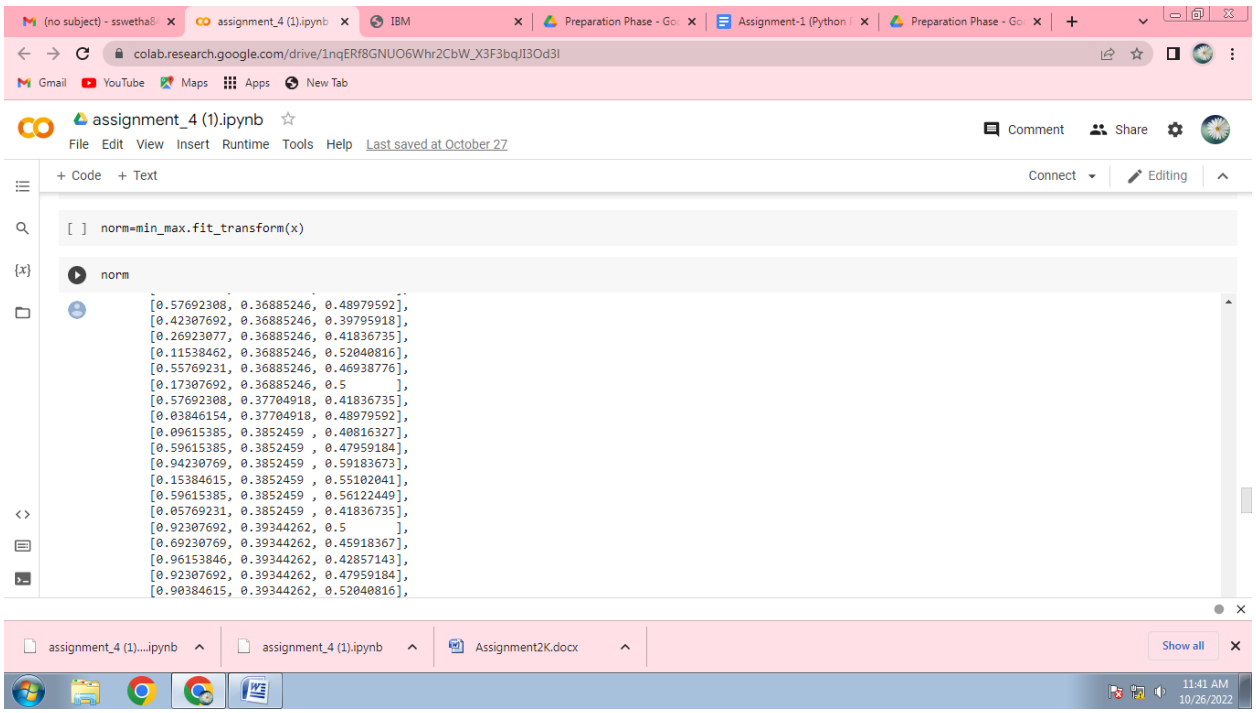
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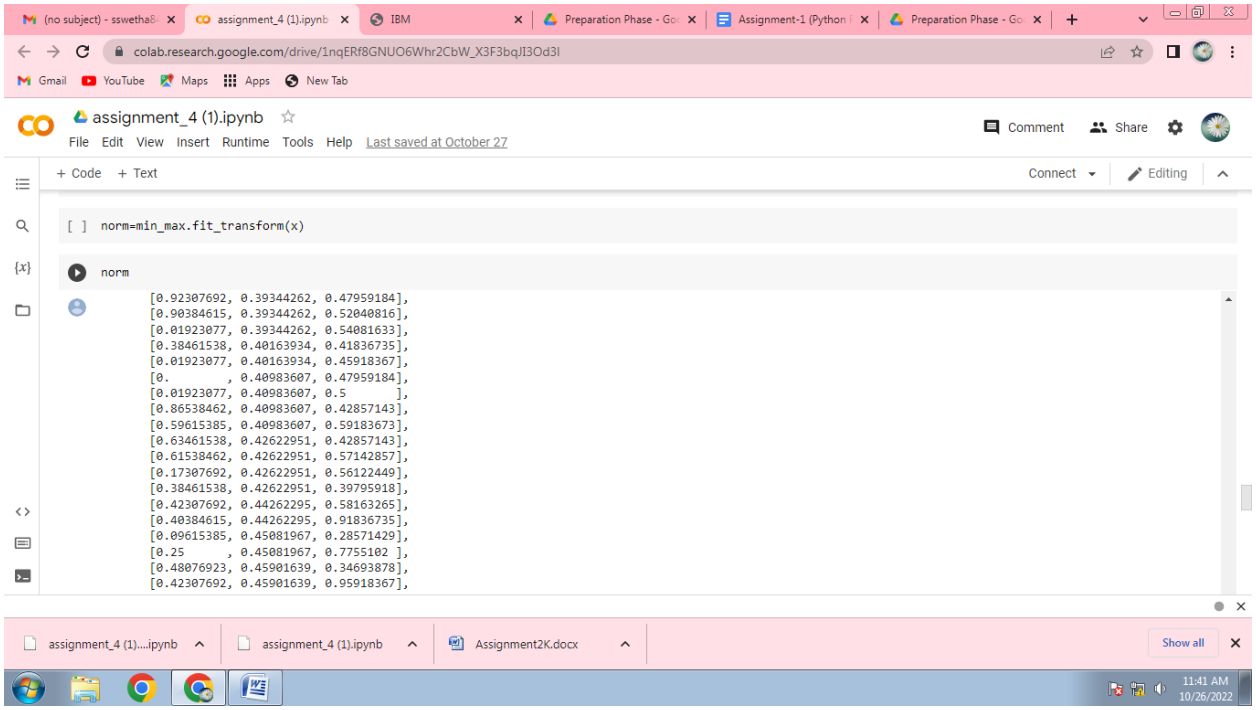
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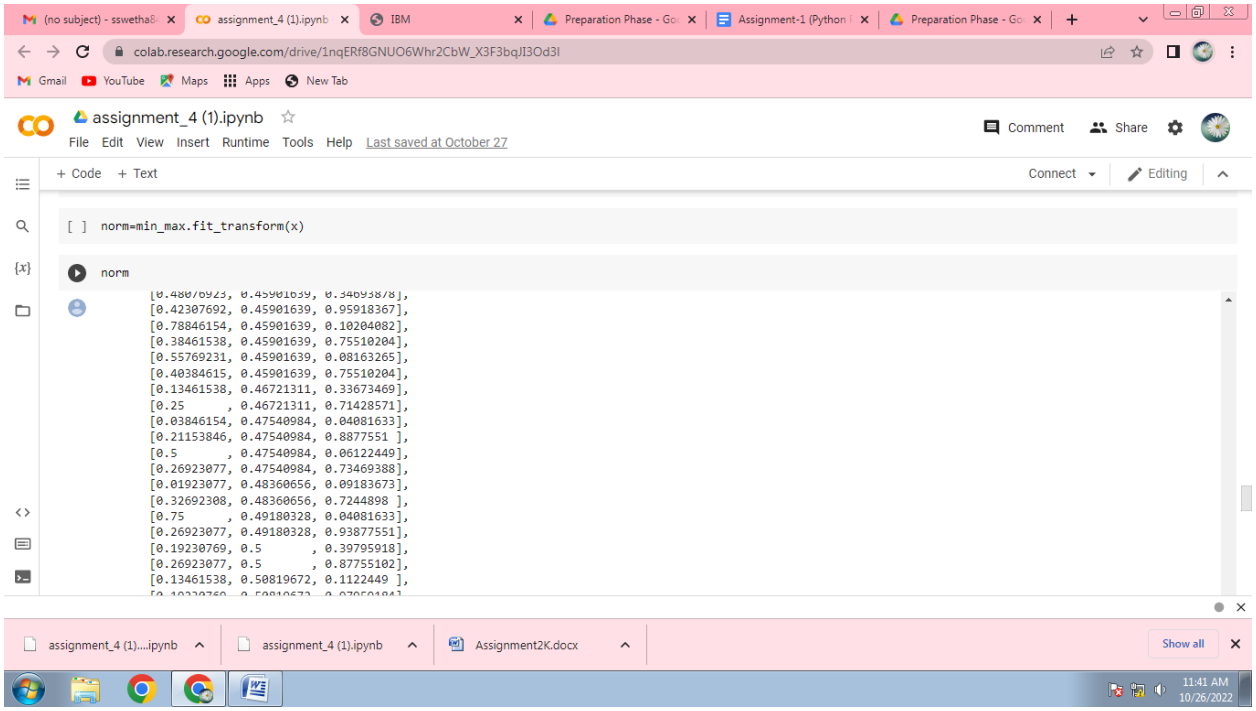
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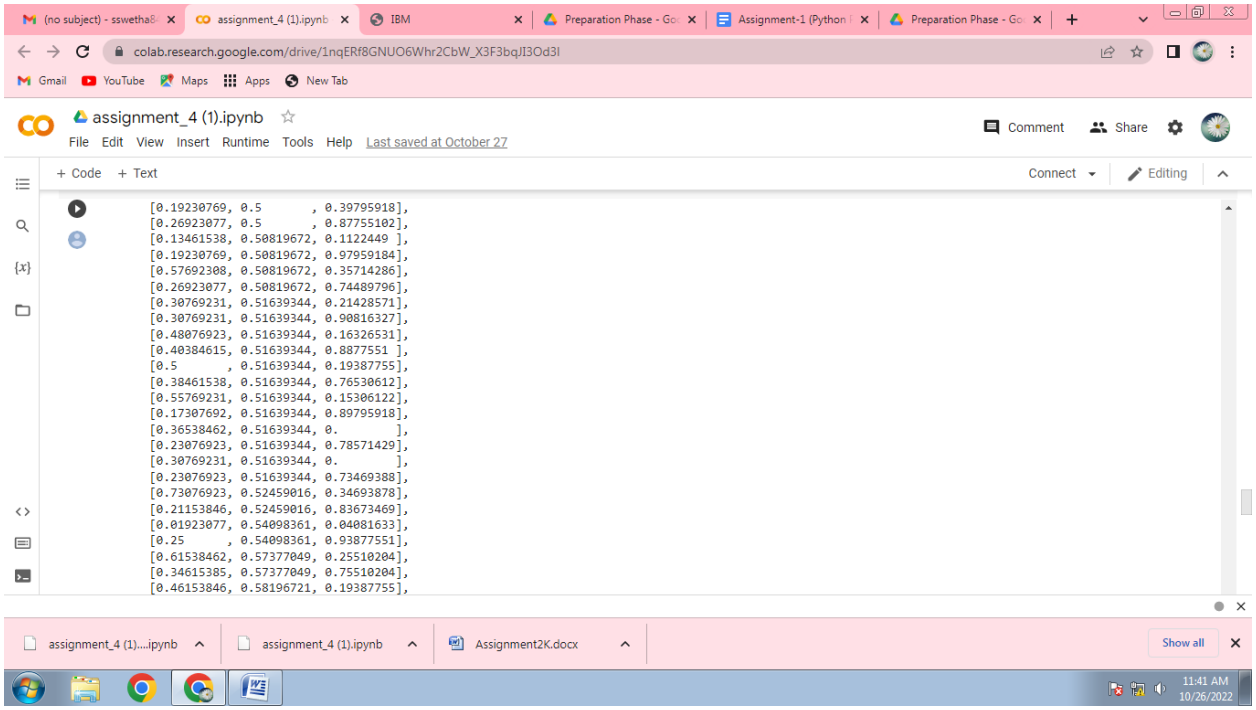
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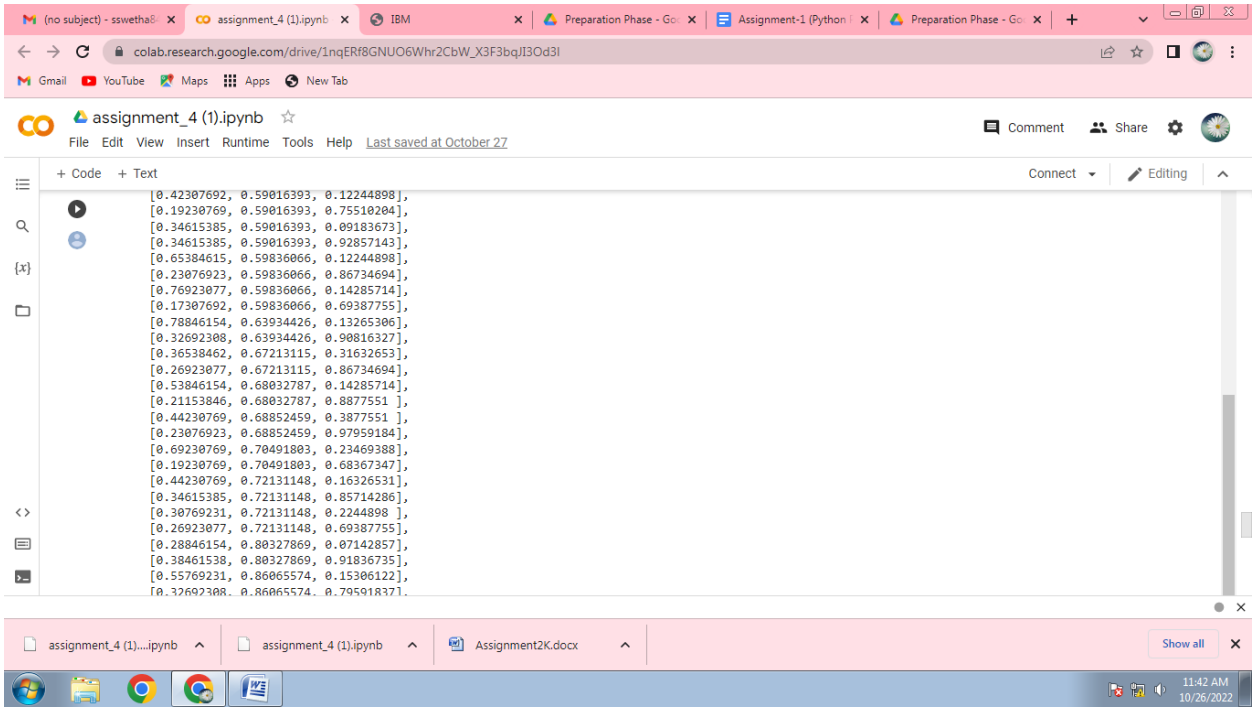
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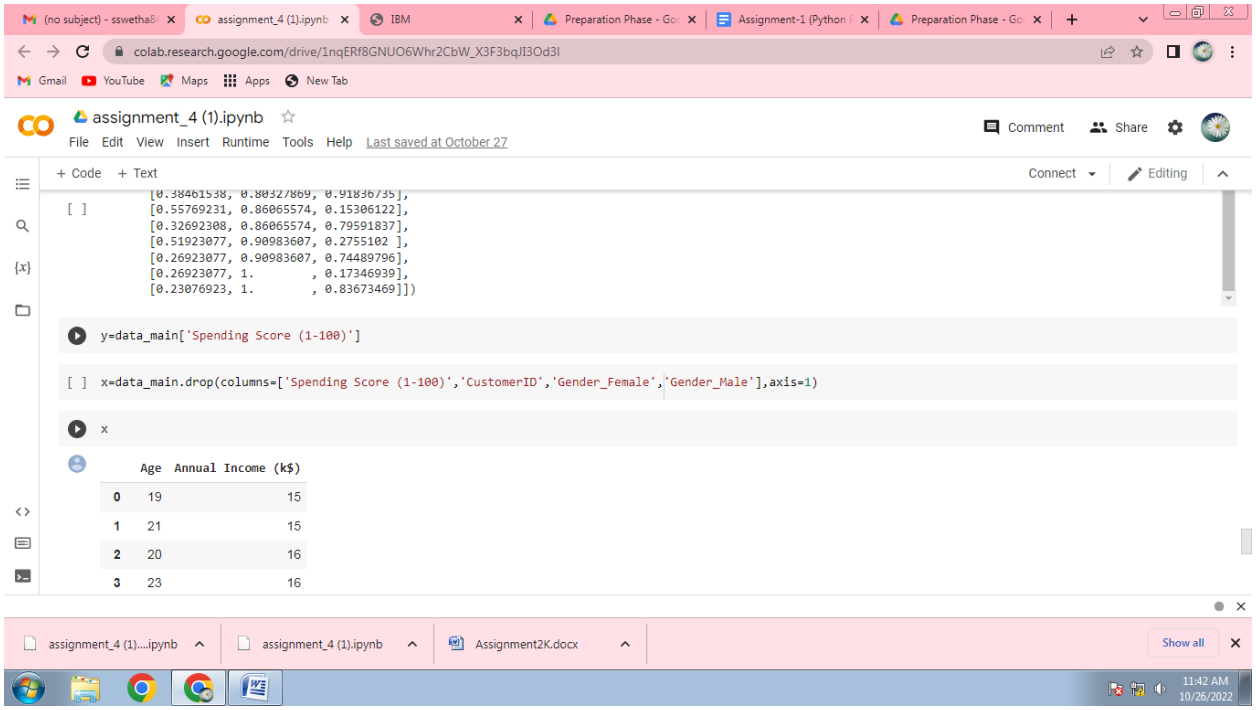
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x
Age Annual Income (k$)
0 19 15
1 21 15
2 20 16
3 23 16
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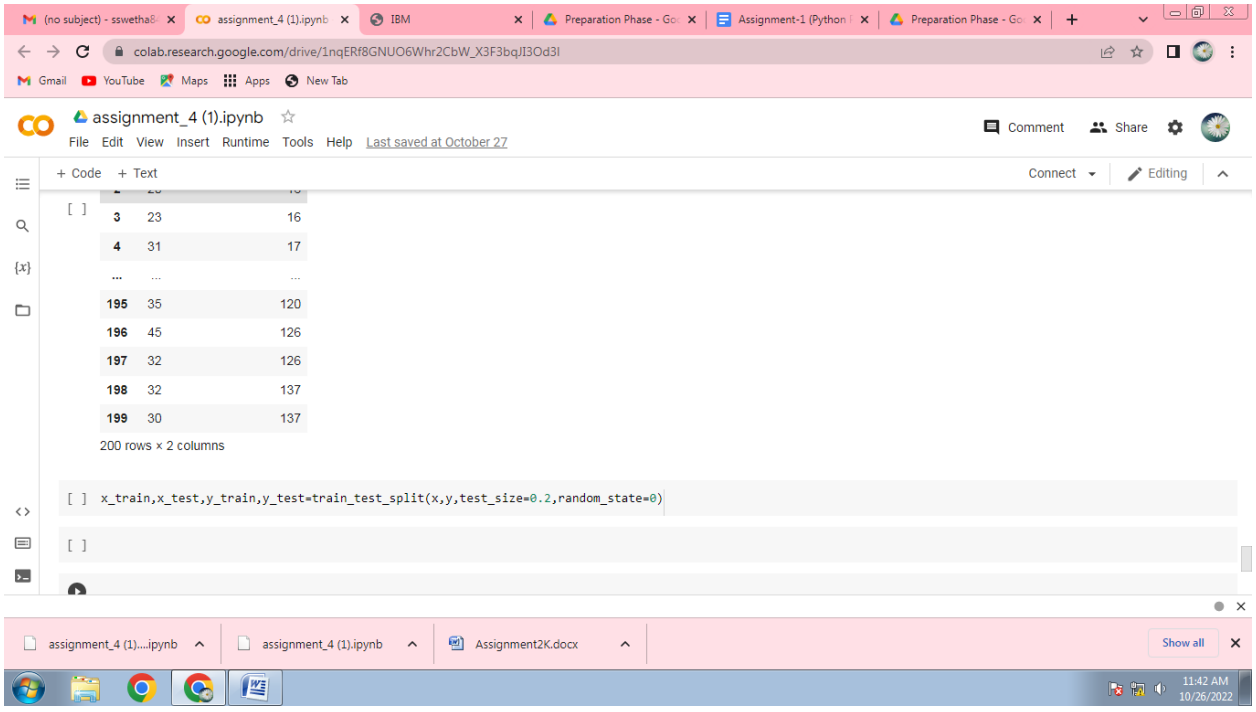
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Assignment-1 (Python
Preparation Phase - Go
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4 31 17
... ...
195 35 120
196 45 126
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199 30 137
200 rows × 2 columns
x_train,x_test,y_train,y_test=train_test_split(x,y,test_size=0.2,random_state=0)
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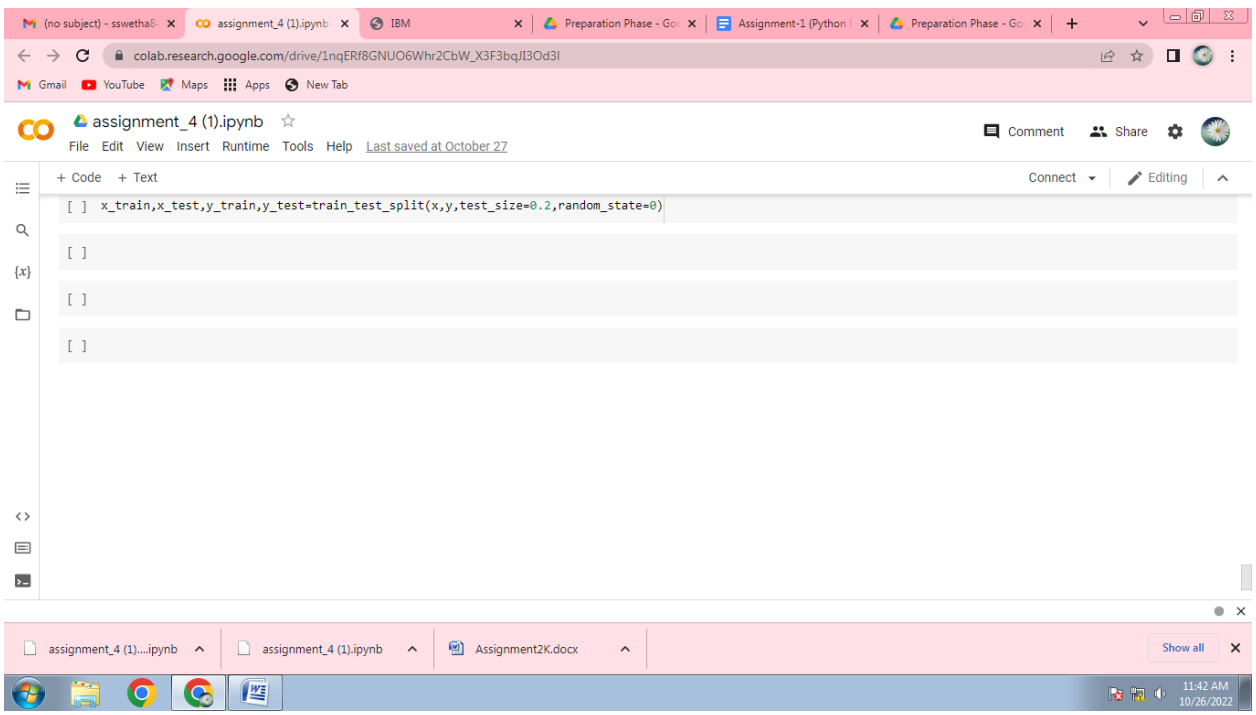
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Preparation Phase - Go
Assignment-1 (Python
Preparation Phase - Go
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x_train,x_test,y_train,y_test=train_test_split(x,y,test_size=0.2,random_state=0)
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