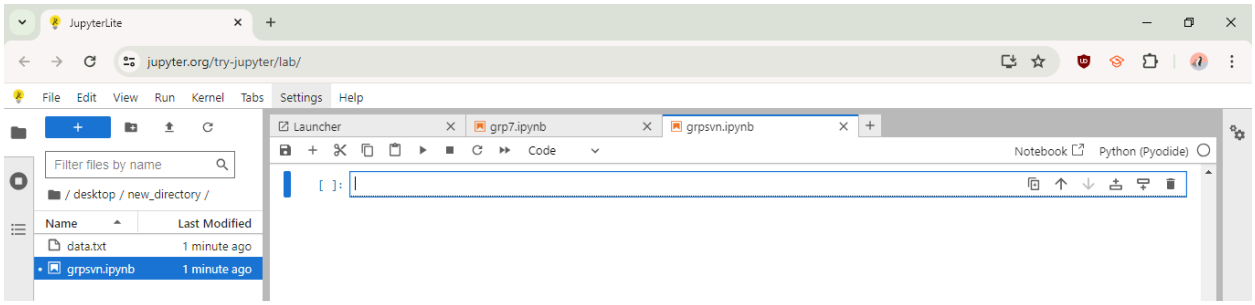
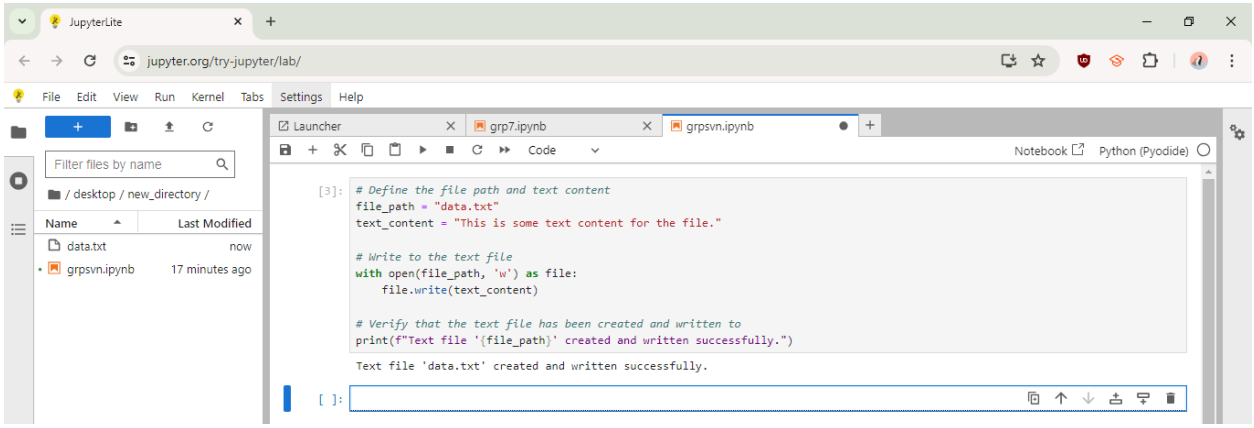
Jupyter Notebook Activity

- **Adding Folder:**



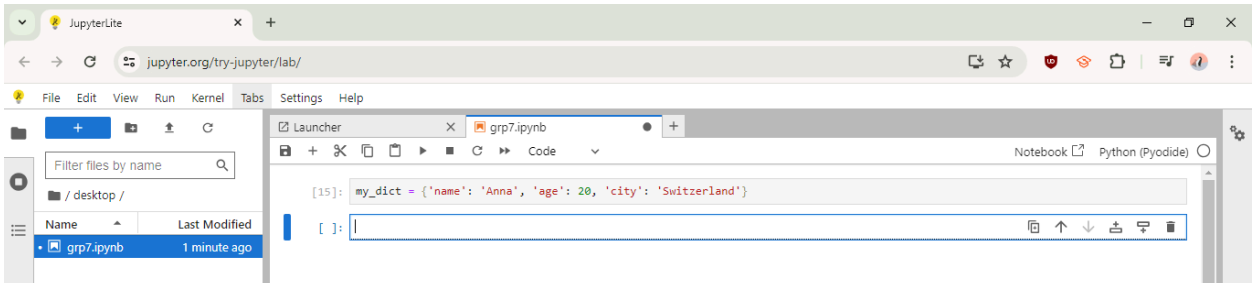
- **Adding Text file:**



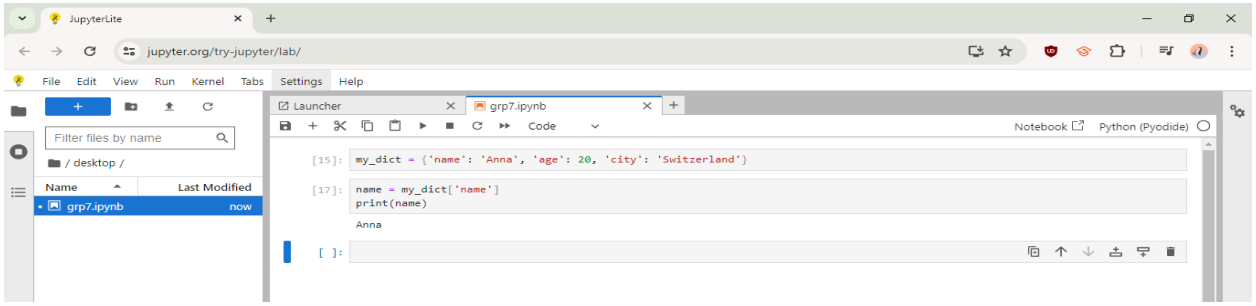
- **CSV file for data analysis and visualization:**

```
In [20]: import pandas as pd
         df = pd.read_csv('vgsales.csv')
         df.shape

Out[20]: (16598, 11)
```

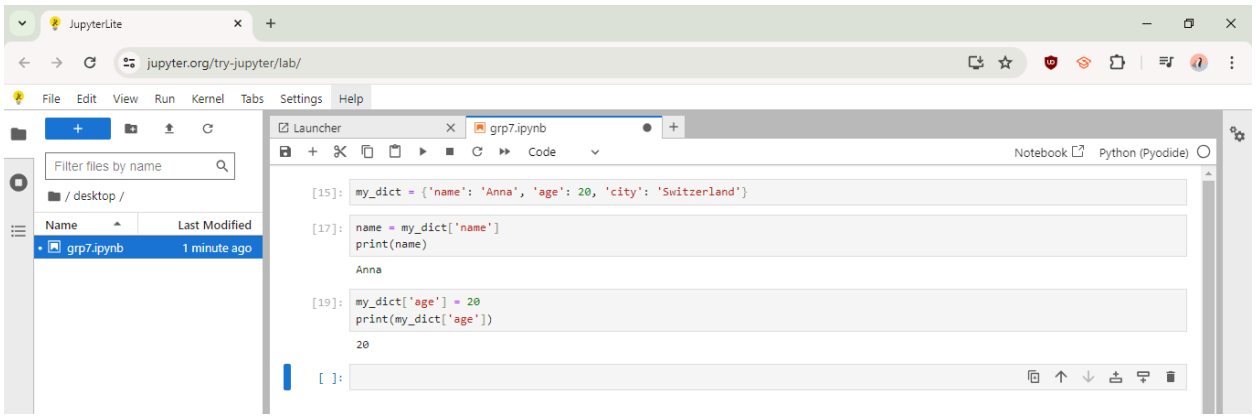
- **To write and call dictionary methods:**



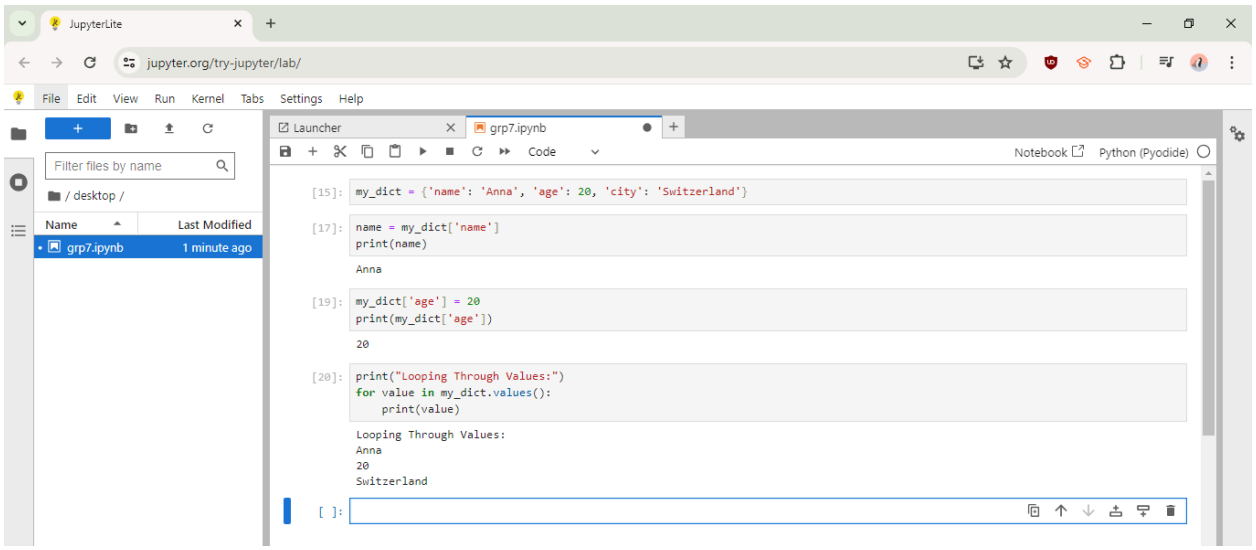
- **Accessing Items in the Dictionary:**



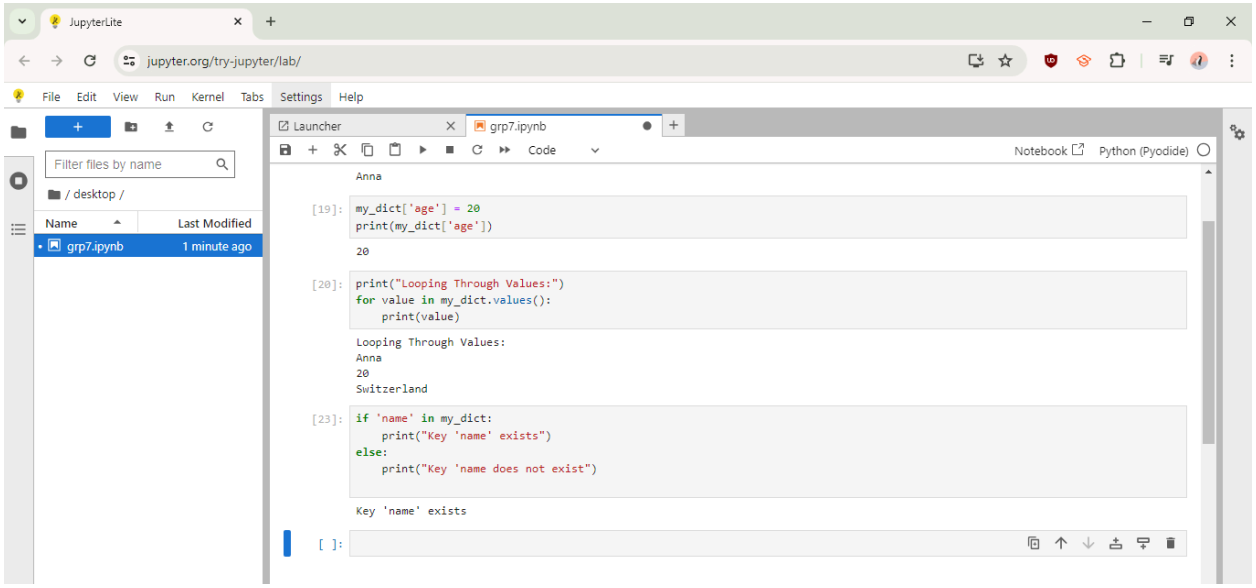
- **Change Values in the Dictionary:**



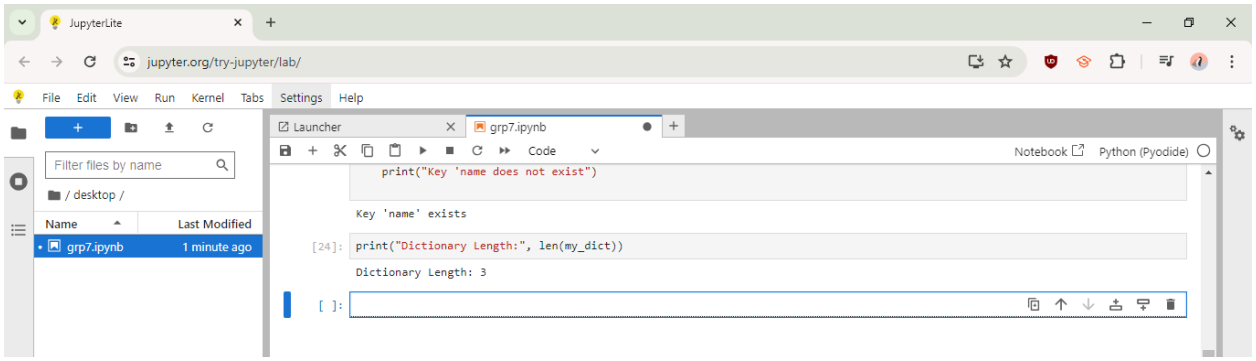
- **Loop Through Dictionary Values:**



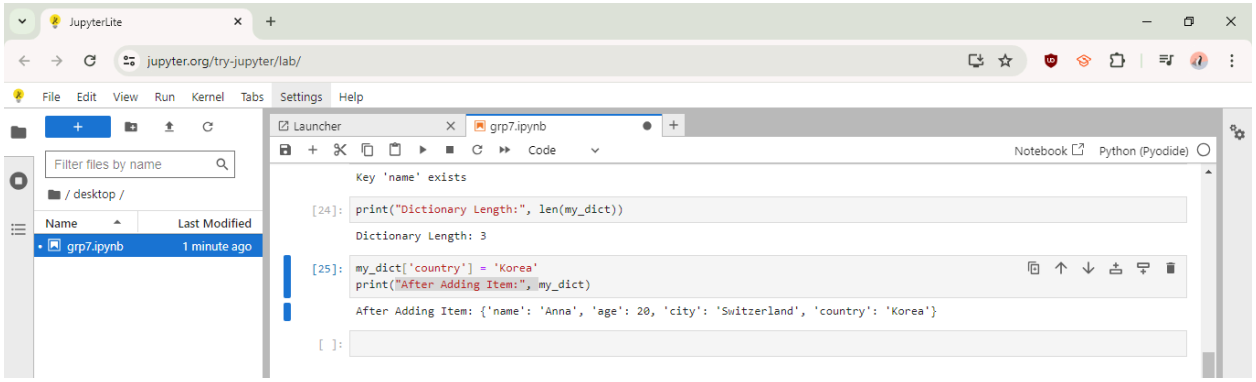
- **Check if Key Exists in the Dictionary:**



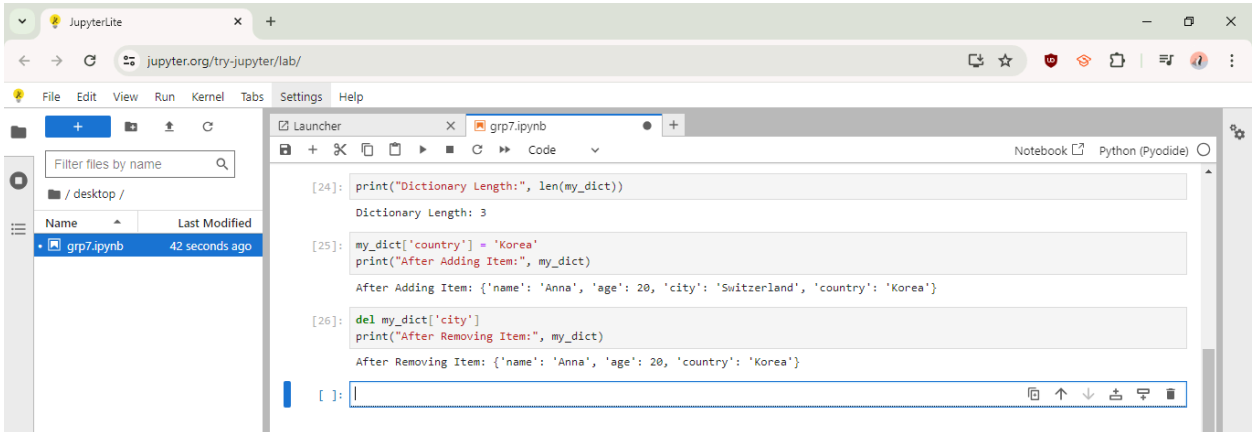
- **Checking for Dictionary Length:**



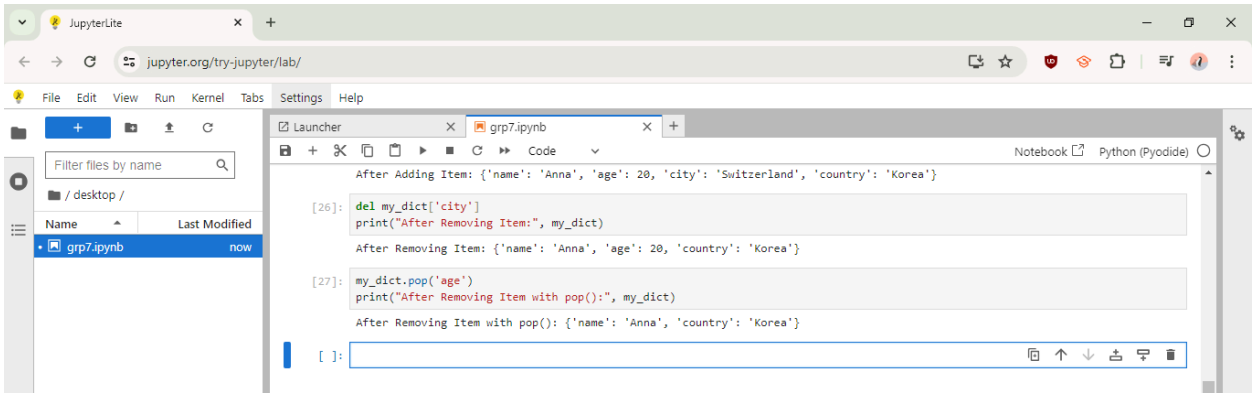
- **Adding Items in the Dictionary:**



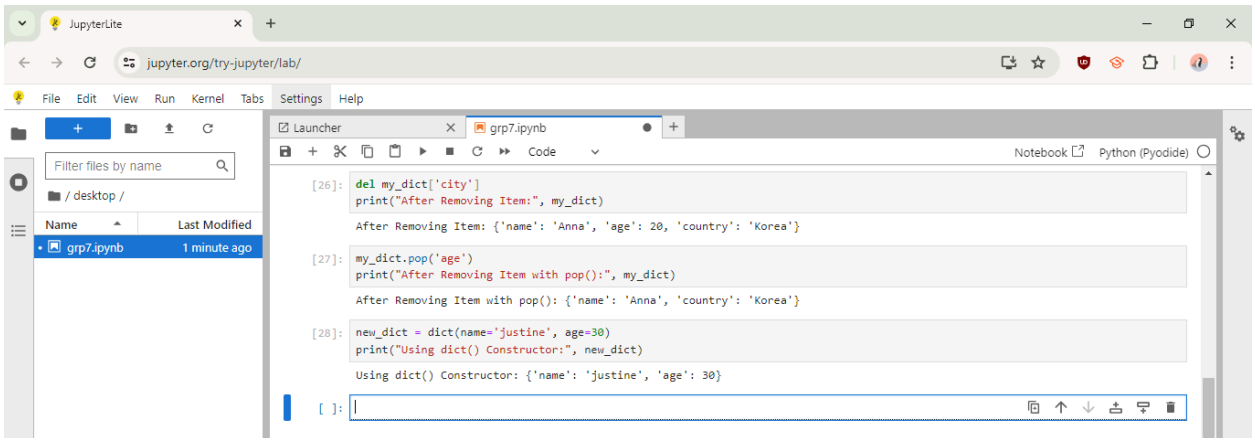
- **Removing Items in the Dictionary:**



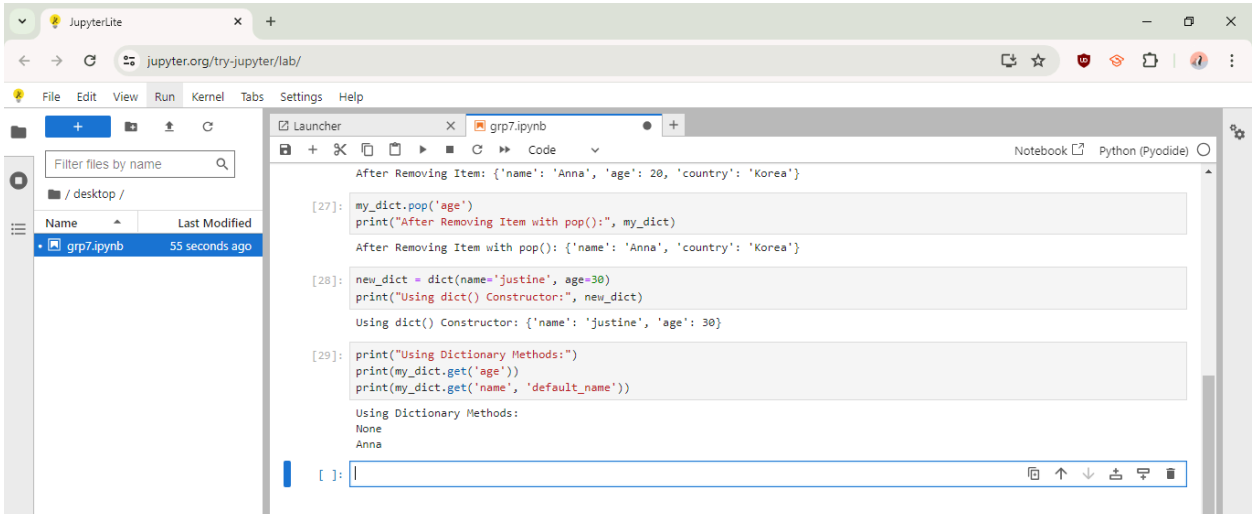
- **Remove an Item Using del Statement:**



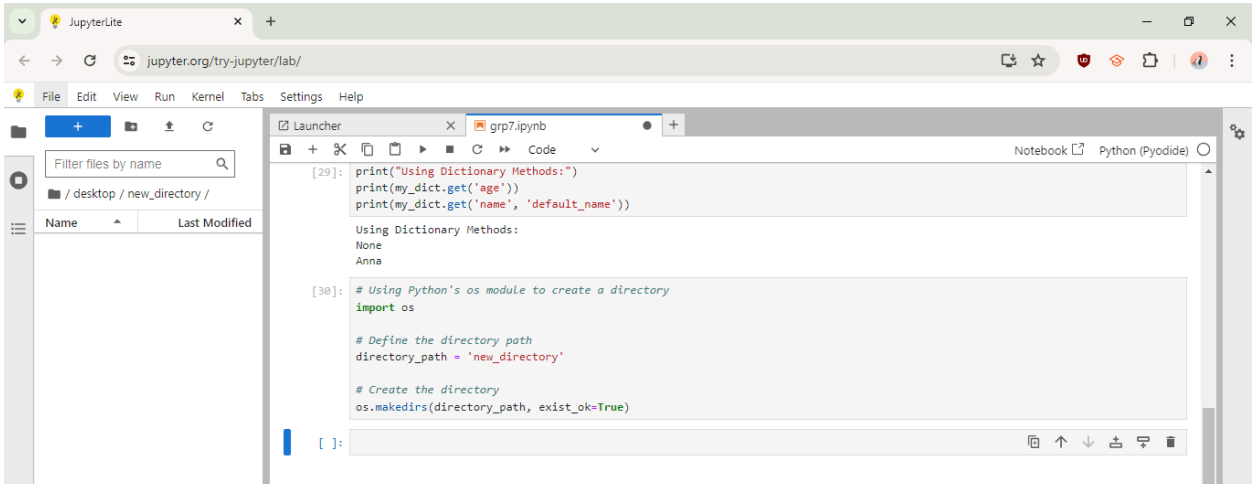
- **The dict() Constructor:**



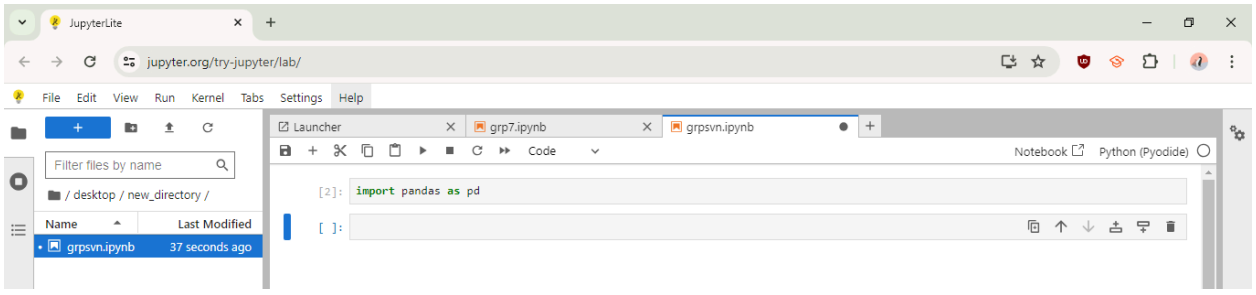
- **Dictionary Methods:**



- **To create a directory using jupyter notebook:**



- **To import libraries:**



- **To use CSV file for data:**

group.ipynb Group7.txt

Code

```
[24]: import pandas as pd

      df = pd.read_csv('group.csv')
```

- **Analysis and visualization**

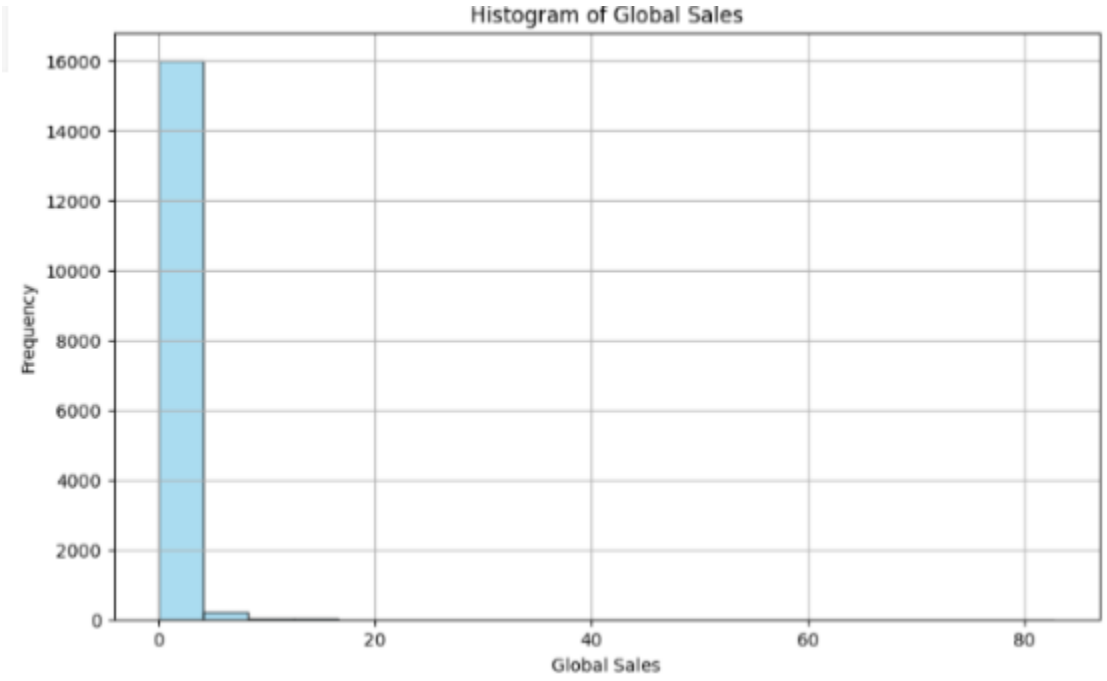
nb Group7.txt

Code

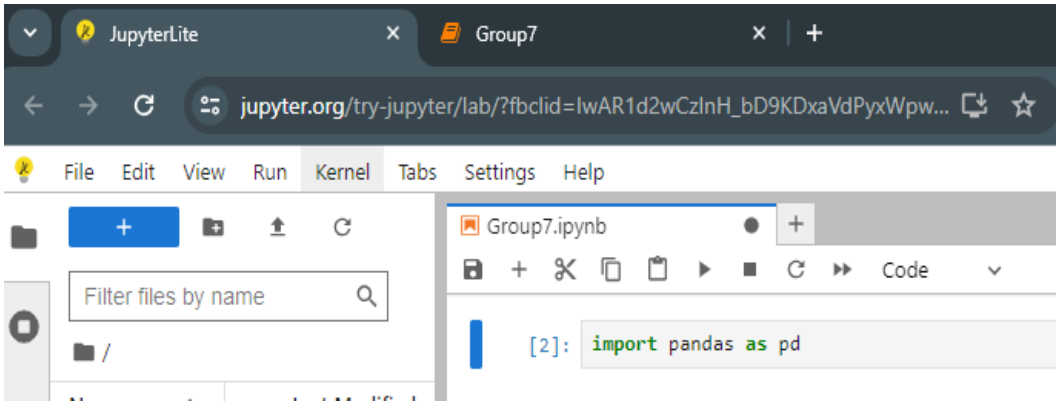
```
import pandas as pd

df = pd.read_csv('vgsales.csv')

print(df.head())
print(df.info())
print(df.describe())

df.dropna(inplace=True)

mean_global_sales = df['Global_Sales'].mean()
print("Mean Global Sales:", mean_global_sales)

import matplotlib.pyplot as plt

plt.figure(figsize=(10, 6))
plt.hist(df['Global_Sales'], bins=20, color='skyblue', edgecolor='black', alpha=0.7)
plt.title('Histogram of Global Sales')
plt.xlabel('Global Sales')
plt.ylabel('Frequency')
plt.grid(True)
plt.show()
```

```
   Rank                      Name Platform    Year         Genre Publisher  \
0     1                Wii Sports      Wii  2006.0        Sports  Nintendo
1     2         Super Mario Bros.      NES  1985.0      Platform  Nintendo
2     3            Mario Kart Wii      Wii  2008.0        Racing  Nintendo
3     4         Wii Sports Resort      Wii  2009.0        Sports  Nintendo
4     5  Pokemon Red/Pokemon Blue       GB  1996.0  Role-Playing  Nintendo

   NA_Sales  EU_Sales  JP_Sales  Other_Sales  Global_Sales
0     41.49     29.02      3.77         8.46         82.74
1     29.08      3.58      6.81         0.77         40.24
2     15.85     12.88      3.79         3.31         35.82
3     15.75     11.01      3.28         2.96         33.00
4     11.27      8.89     10.22         1.00         31.37
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 16598 entries, 0 to 16597
Data columns (total 11 columns):
 #   Column        Non-Null Count  Dtype
---  ------        --------------  -----
 0   Rank          16598 non-null  int64
 1   Name          16598 non-null  object
 2   Platform      16598 non-null  object
 3   Year          16327 non-null  float64
 4   Genre         16598 non-null  object
 5   Publisher     16540 non-null  object
 6   NA_Sales      16598 non-null  float64
 7   EU_Sales      16598 non-null  float64
 8   JP_Sales      16598 non-null  float64
 9   Other_Sales   16598 non-null  float64
 10  Global_Sales  16598 non-null  float64
dtypes: float64(6), int64(1), object(4)
memory usage: 1.1+ MB
None
                Rank          Year      NA_Sales      EU_Sales      JP_Sales  \
count  16598.000000  16327.000000  16598.000000  16598.000000  16598.000000
mean    8300.605254   2006.406443      0.264667      0.146652      0.077782
std     4791.853933      5.828981      0.816683      0.505351      0.309291
min        1.000000   1980.000000      0.000000      0.000000      0.000000
25%     4151.250000   2003.000000      0.000000      0.000000      0.000000
50%     8300.500000   2007.000000      0.080000      0.020000      0.000000
75%    12449.750000   2010.000000      0.240000      0.110000      0.040000
max    16600.000000   2020.000000     41.490000     29.020000     10.220000

        Other_Sales  Global_Sales
count  16598.000000  16598.000000
mean       0.048063      0.537441
std        0.188588      1.555028
min        0.000000      0.010000
25%        0.000000      0.060000
50%        0.010000      0.170000
75%        0.040000      0.470000
max       10.570000     82.740000
Mean Global Sales: 0.5409103185808114
```



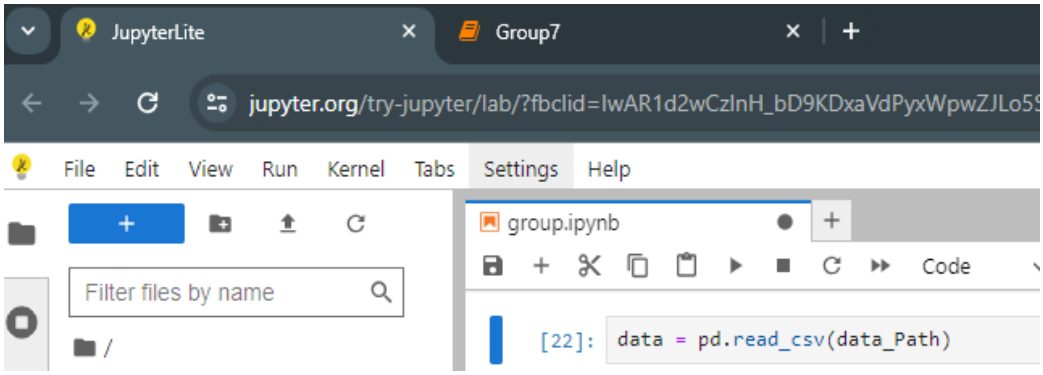
- **Import libraries**



- **Finding data**

```
data_path = "data.csv"
```

- **Importing data**



- **Data attributes**

```
In [36]: import pandas as pd
         df = pd.read_csv('vgsales.csv')
         df.shape

Out[36]: (16598, 11)
```

Group 7 Members:

Carange, Ansthrea

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