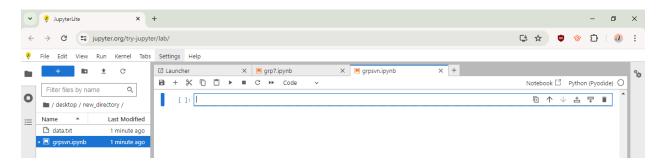
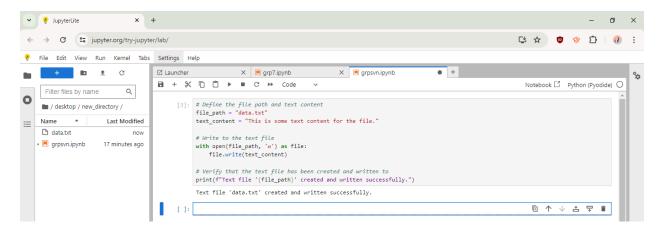
Jupyter notebook Activity

Adding Folder



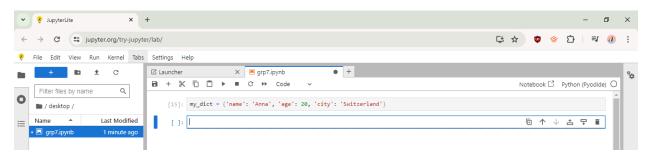
Adding Text file



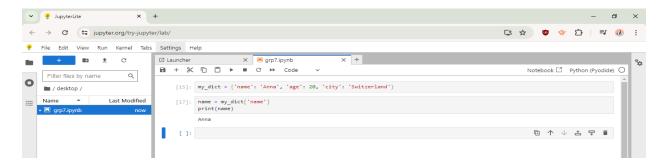
• CSV file for data analysis and visualization

```
In [20]: import pandas as pd
    df = pd.read_csv('vgsales.csv')
    df.shape
Out[20]: (16598, 11)
```

• To write and call dictionary methods



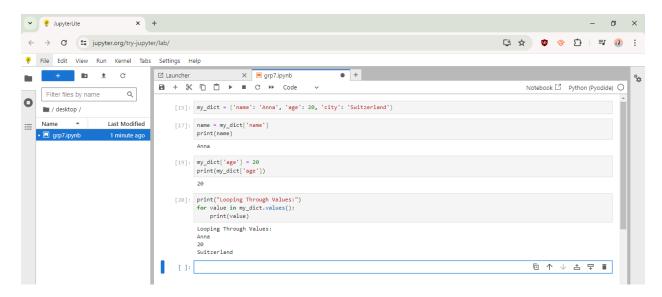
Accessing Items in the Dictionary:



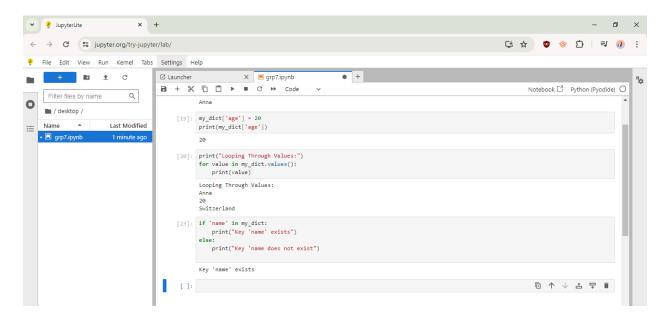
Change Values in the Dictionary:



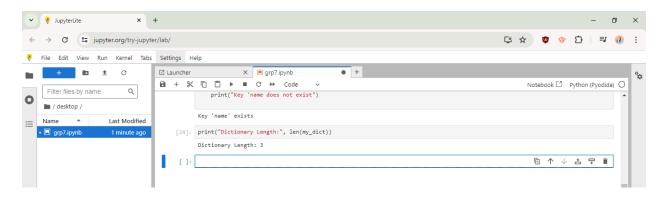
Loop Through Dictionary Values:



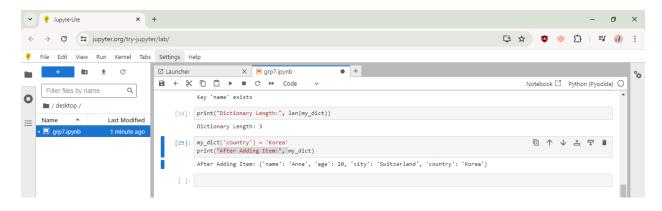
Check if Key Exists in the Dictionary:



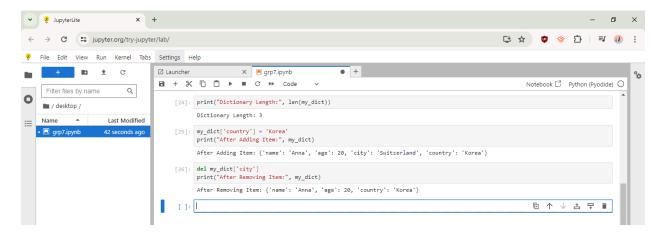
Checking for Dictionary Length:



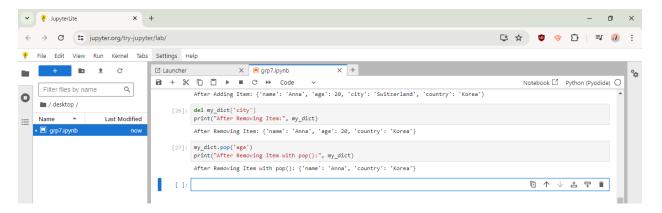
• Adding Items in the Dictionary:



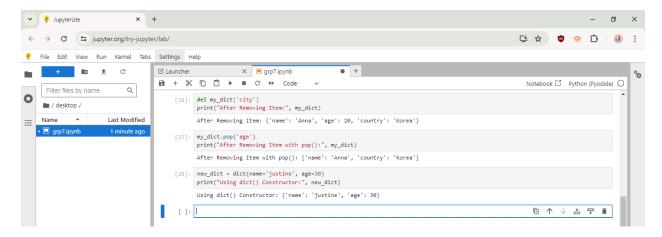
• Removing Items in the Dictionary:



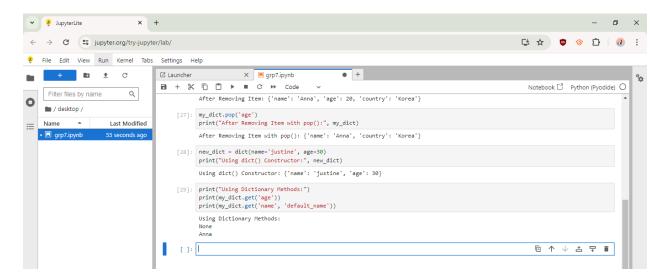
Remove an Item Using del Statement:



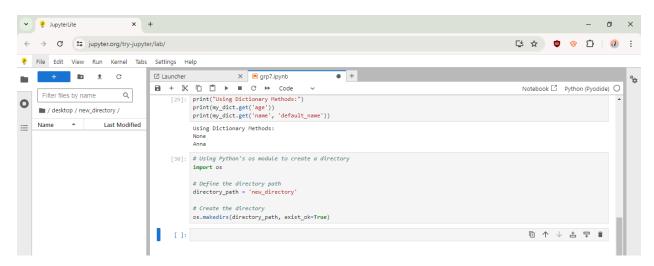
• The dict() Constructor:



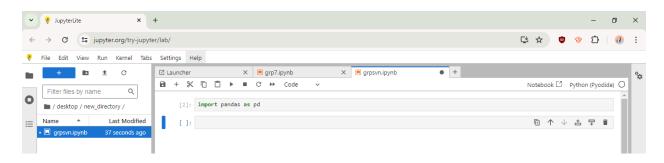
• Dictionary Methods:



To create a directory using jupyter notebook:



To import libraries:



• To use CSV file for data:

Analysis and visualization

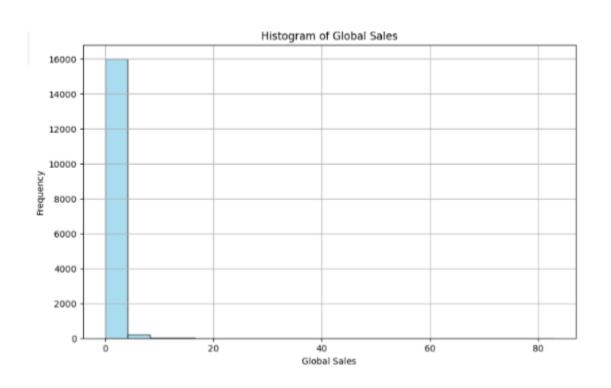
nb

```
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()
```

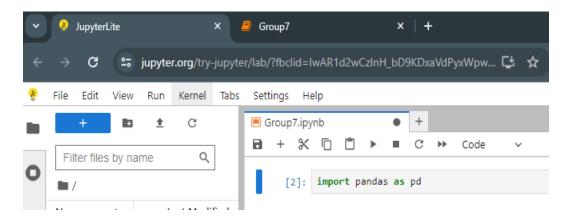
 \times | +

```
Name Platform
                                                        Genre Publisher
                     Wii Sports
                                     Wii 2006.0
                                                       Sports Nintendo
               Super Mario Bros.
                                     NES 1985.0
                                                     Platform
                                                              Nintendo
                 Mario Kart Wii
                                     W11 2008.0
                                                     Racing Nintendo
               Wii Sports Resort
                                     Wii 2009.0
                                                              Nintendo
4
     5 Pokemon Red/Pokemon Blue
                                      GB 1996.0 Role-Playing Nintendo
  NA_Sales EU_Sales JP_Sales Other_Sales Global_Sales
ø
     41.49
               29.02
                        3.77
                                     8.46
                                                  82.74
     29.08
               3.58
                         6.81
                                      0.77
                                                  40.24
     15.85
               12.88
                         3.79
                                      3.31
                                                  35.82
     15.75
              11.01
                         3.28
                                      2.96
                                                  33.00
     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):
                Non-Null Count Dtype
# Column
 9
    Rank
                  16598 non-null int64
    Name
                  16598 non-null object
    Platform
                  16598 non-null object
                  16327 non-null float64
    Year
                  16598 non-null object
 4
    Genne
    Publisher
                  16540 non-null object
    NA_Sales
                  16598 non-null float64
    EU Sales
                  16598 non-null float64
    JP_Sales
                  16598 non-null float64
    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
                                    0.264667
                                                  0.146652
                                                                0.077782
mean
       8300.605254
                   2006.406443
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%
                                                                0.040000
      12449.750000
                     2010.000000
                                     0.240000
                                                  0.110000
                                    41.498888
                                                  29.020000
                                                               10.220000
      16600,000000
                     2020,000000
max
       Other_Sales Global_Sales
      16598.000000 16598.000000
count
          0.048063
                       0.537441
mean
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
```

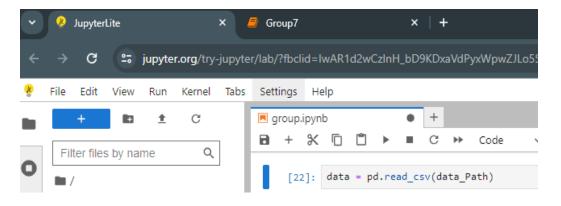


• Import libraries



Finding data

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:

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