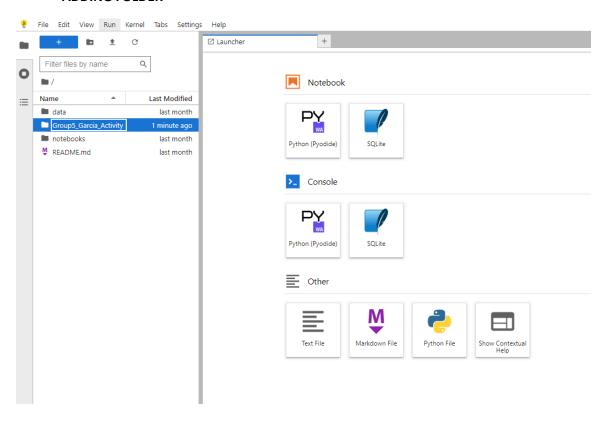
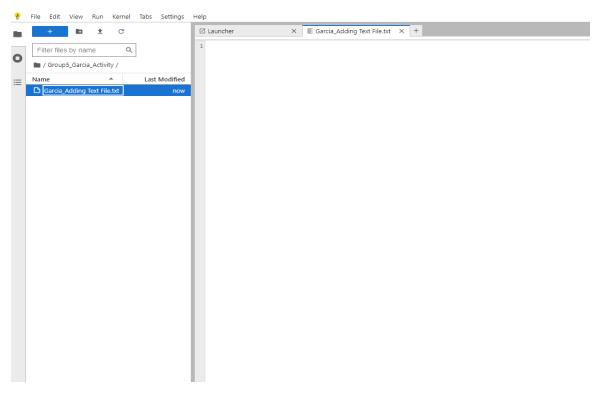
CS3C

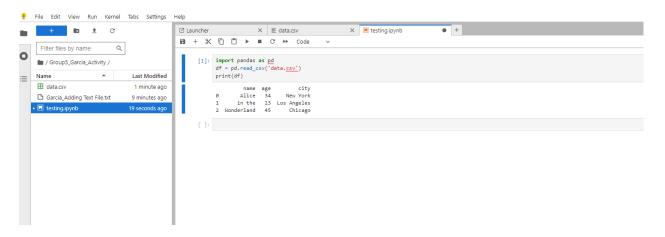
• ADDING FOLDER



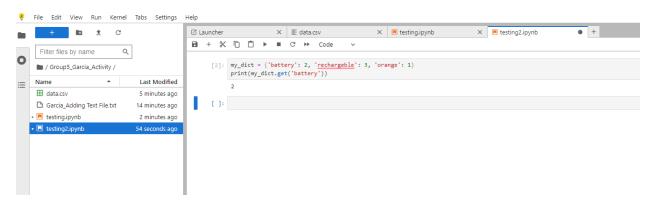
• ADDING TEXT FILE



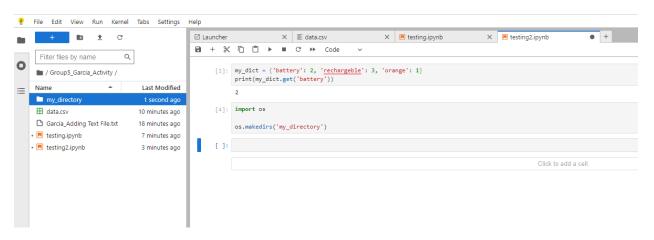
CSV FILE FOR DATA ANALYSIS AND VISULIZATION



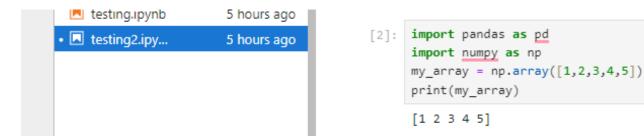
• TO WRITE AND CALL DICTIONARY METHODS.



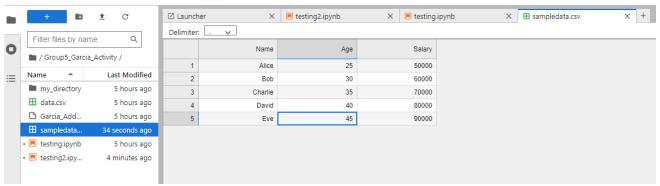
• TO CREATE A DIRECTORY USING JUPYTER NOTEBOOK.

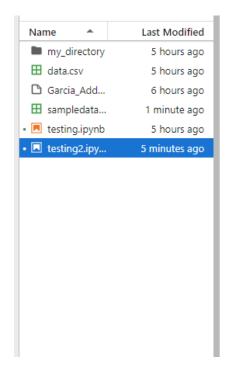


TO IMPORT LIBRARIES



• TO USE CSV FILE FOR DATA



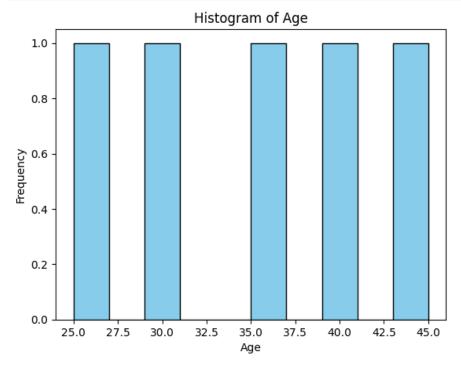


```
print(my_dict.get('battery'))
[4]: import os
     os.makedirs('my directory')
[2]: import pandas as pd
     import numpy as np
     my_array = np.array([1,2,3,4,5])
     print(my_array)
     [1 2 3 4 5]
[3]: import pandas as pd
     import matplotlib.pyplot as plt
     df = pd.read_csv('sampledata.csv')
     print(df)
           Name Age Salary
         Alice 25 50000
Bob 30 60000
     2 Charlie 35 70000
        David 40 80000
          Eve 45 90000
```

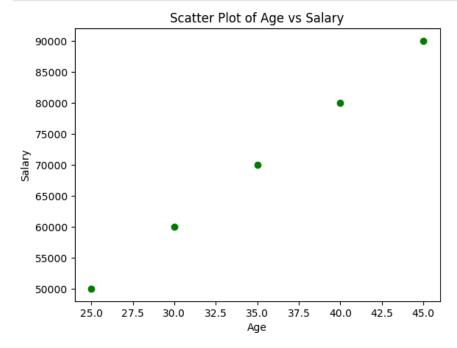
ANALYSIS AND VISUALIZATION

```
print("First 5 rows of the DataFrame:")
[4]:
     print(df.head())
     First 5 rows of the DataFrame:
          Name Age Salary
         Alice 25
                    50000
     0
     1
           Bob 30 60000
     2 Charlie 35 70000
     3 David 40 80000
          Eve 45 90000
[5]: print("\nMissing Values:")
     print(df.isnull().sum())
     Missing Values:
     Name
              0
     Age
     Salary
     dtype: int64
[6]: print("\nSummary Statistics:")
     print(df.describe())
     Summary Statistics:
                         Salary
                Age
     count 5.000000 5.000000
     mean 35.000000 70000.000000
           7.905694 15811.388301
     std
     min 25.000000 50000.000000
     25%
         30.000000 60000.000000
     50% 35.000000 70000.000000
     75% 40.000000 80000.000000
     max 45.000000 90000.000000
```

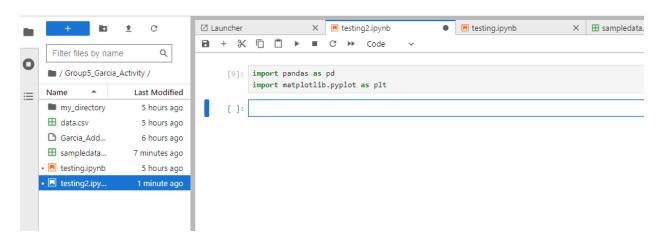
```
[7]: plt.hist(df['Age'], bins=10, color='skyblue', edgecolor='black')
    plt.title('Histogram of Age')
    plt.xlabel('Age')
    plt.ylabel('Frequency')
    plt.show()
```



```
[8]: plt.scatter(df['Age'], df['Salary'], color='green')
plt.title('Scatter Plot of Age vs Salary')
plt.xlabel('Age')
plt.ylabel('Salary')
plt.show()
```



IMPORT LIBRARIES



FINDING DATA



• IMPORTING DATA



• DATA ATTRIBUTES

```
[12]: print("Data Types:")
      print(df.dtypes)
      Data Types:
      Name object
      Age int64
Salary int64
      dtype: object
[13]: print("\nColumn Names:")
      print(df.columns)
      Column Names:
      Index(['Name', 'Age', 'Salary'], dtype='object')
[14]: print("\nMissing Values:")
      print(df.isnull().sum())
      Missing Values:
      Name 0
               0
      Age
      Salary
              0
      dtype: int64
[]:
```