

The Project includes the analysis of the monthly activity ,weekly activity,per hour analysis
Everyday of the week.

```
In [1]: import pandas as pd
import numpy as np
import matplotlib
import seaborn as sns

In [2]: import os

In [3]: #now we are Importing the directories from our dataset folders
os.listdir(r"C:\Users\hp\Desktop\DataAnalysis\Datasets-20240722T1519232-001\Datasets")

Out[3]: ['other-American_801362.csv',
'other-Camel_800256.csv',
'other-DialT_800807.csv',
'other-Diplo_801196.csv',
'other-Federal_02216.csv',
'other-FRM-services_Jan-aug-2015.csv',
'other-Firstclass_801536.csv',
'other-Highclass_801737.csv',
'other-Lyft_802510.csv',
'other-Prestige_801338.csv',
'other-Skyline_800211.csv',
'Uber-Jan-Feb-FOIL.csv',
'Uber-ranw-data-april4.csv',
'Uber-ranw-data-aug14.csv',
'Uber-ranw-data-jan-june-15.csv',
'Uber-ranw-data-jan-june-15_sample.csv',
'Uber-ranw-data-jul14.csv',
'Uber-ranw-data-jun14.csv',
'Uber-ranw-data-may14.csv',
'Uber-ranw-data-sep14.csv']

In [4]: #now the pandas-read_csv() to import and read the csv file of our Jan-June 2015 dataset of Uber
uber_15=pd.read_csv(r"C:\Users\hp\Desktop\DataAnalysis\Datasets-20240722T1519232-001\Datasets\Uber-ranw-data-jan-june-15.csv")

In [5]: uber_15.shape
Out[5]: (14279479, 4)
```

Cleaning dataset

```
In [6]: uber_15.duplicated().sum() #here we found how many values are duplicated in the data frame , to proceed with our data cleaning work
Out[6]: 698225

In [7]: uber_15.drop_duplicates(inplace=True) #removed all the duplicated values from the dataframe
Out[7]: 0

In [8]: uber_15.duplicated().sum() #to check if all the duplicates are removed or not
Out[8]: 0

In [9]: uber_15.dtypes
Out[9]: Disptaching_base_num    object
Pickup_date                object
Affiliated_base_num        object
locationID                 int64
dtype: object

In [10]: uber_15.isnull().sum()#to find all places with missing values
Out[10]: Disptaching_base_num    0
Pickup_date                0
Affiliated_base_num        160780
locationID                 0
dtype: int64

In [11]: uber_15['Pickup_date'][0]
Out[11]: '2015-05-17 09:47:00'

In [12]: #converting the datatype of the PickupDate to Timestamp type (originally is a string)
uber_15['Pickup_date']=pd.to_datetime(uber_15['Pickup_date'])
#type conversion of data so that we can use it in better ways (data cleaning)

In [13]: type(uber_15['Pickup_date'])[0]
Out[13]: pandas._libs.tslibs.timestamps.Timestamp

In [14]: uber_15['month']=uber_15['Pickup_date'].dt.month_name()
uber_15['month']
Out[14]: 0    May
1    May
2    May
3    May
4    May
14278474    May
14278475    May
14278476    May
14278477    May
14278478    May
Name: month, Length: 13372254, dtype: object
```

Montly analysis of the user count , (nno. of users are in 10^6)

```
In [15]: uber_15['month'].value_counts().plot(color='red',marker='*')
#this is a action applied to the month Series (a single column) to
create a Series that counts the occurrences of each unique month value.
as essentially performs frequency analysis on the month data.
Out[15]: <Axes: xlabel='month'>

In [16]: uber_15['days']=uber_15['Pickup_date'].dt.day_name()
uber_15['date']=uber_15['Pickup_date'].dt.day
uber_15['hour']=uber_15['Pickup_date'].dt.hour
uber_15['minute']=uber_15['Pickup_date'].dt.minute
#creating Series for all the needed values like the days , dates , hour , minute

In [17]: uber_15.head()
Out[17]:
   Disptaching_base_num  Pickup_date  Affiliated_base_num  locationID  month  days  date  hour  minute
0          802617  2015-05-17 09:47:00          802617          141  May  Sunday   17     9      47
1          802617  2015-05-17 09:47:00          802617          65  May  Sunday   17     9      47
2          802617  2015-05-17 09:47:00          802617          100  May  Sunday   17     9      47
3          802617  2015-05-17 09:47:00          802774          90  May  Sunday   17     9      47
4          802617  2015-05-17 09:47:00          802617          80  May  Sunday   17     9      47

In [18]: pivot=pd.crosstab(index=uber_15['month'],columns=uber_15['days'])
#pd.crosstab() function creates a frequency table
#summarizing how often combinations
of categorical variables occur in your data.
In [19]: pivot
Out[19]:
   days  Friday  Monday  Saturday  Sunday  Thursday  Tuesday  Wednesday
February 37560  27498  36831  296130  335603  28780  263687
January   33085  19006  38049  230487  330319  196574  245600
June      37125  37531  39837  33434  357782  405600  238141
March     40631  26931  314785  313955  277026  306364  256767
May       43034  25501  464298  390391  337607  290004  316045

In [20]: type(pivot)
Out[20]: pandas.core.frame.DataFrame
```

Analysis of active user-traffic for every week of every month

```
In [21]: pivot.plot(kind='bar',figsize=(10,4),label='days',legend(frameon=False, loc='upper left', ncol=2, fontsize='8')
#matplotlib legend,legend at 0x1a470d8310-b
Out[21]:
<Figure with 1 Axes>

In [22]: summary=uber_15.groupby(['days','hour']).as_index=False).size()
In [ ]: 
```

Analysis of the active users , for every hour of the day

```
In [23]: sns.pointplot(x='hour',y='size',hue='days',data=summary).legend(fontsize='8')
Out[23]:
<matplotlib.legend.Legend at 0x1aa7255e8d9>

In [ ]: 
```

Which base number has the most amount of active user

```
In [24]: os.listdir(r"C:\Users\hp\Desktop\DataAnalysis\Datasets-20240722T1519232-001\Datasets")
Out[24]: ['other-American_801362.csv',
'other-Camel_800256.csv',
'other-DialT_800807.csv',
'other-Diplo_801196.csv',
'other-Federal_02216.csv',
'other-FRM-services_Jan-aug-2015.csv',
'other-Firstclass_801536.csv',
'other-Highclass_801737.csv',
'other-Lyft_802510.csv',
'other-Prestige_801338.csv',
'other-Skyline_800211.csv',
'Uber-Jan-Feb-FOIL.csv',
'Uber-ranw-data-april4.csv',
'Uber-ranw-data-aug14.csv',
'Uber-ranw-data-jan-june-15.csv',
'Uber-ranw-data-jan-june-15_sample.csv',
'Uber-ranw-data-jul14.csv',
'Uber-ranw-data-jun14.csv',
'Uber-ranw-data-may14.csv',
'Uber-ranw-data-sep14.csv']

In [25]: uber_foill=pd.read_csv(r"C:\Users\hp\Desktop\DataAnalysis\Datasets-20240722T1519232-001\Datasets\Uber-Jan-Feb-FOIL.csv")
In [26]: uber_foill.head()
Out[26]:
   disptaching_base_number  date  active_vehicles  trips
0          802512  1/2015          100          132
1          802765  1/2015          225          1765
2          802764  1/2015          3427          29421
3          802682  1/2015          945          7589
4          802617  1/2015          1228          9537

In [27]: #pip install chart_studio
#pip install plotly
#Defaulting to user installation because normal site-packages is not writeable
Requirement already satisfied: chart_studio in c:\users\hp\appdata\roaming\python\python311\site-packages (1.1.0)
Requirement already satisfied: plotly in d:\new folder\libsite-packages (from chart_studio) (5.9.0)
Requirement already satisfied: requests in d:\new folder\libsite-packages (from chart_studio) (2.31.0)
Requirement already satisfied: retrying<1.3.3 in c:\users\hp\appdata\roaming\python\python311\site-packages (from chart_studio) (1.3.4)
Requirement already satisfied: requests in d:\new folder\libsite-packages (from chart_studio) (2.31.0)
Requirement already satisfied: tenacity<6.2.0 in d:\new folder\libsite-packages (from plotly>chart_studio) (8.2.2)
Requirement already satisfied: charset-normalizer<=2.0.12 in d:\new folder\libsite-packages (from requests>chart_studio) (2.0.4)
Requirement already satisfied: urllib3<3.9,>=1.21.1 in d:\new folder\libsite-packages (from requests>chart_studio) (1.26.16)
Requirement already satisfied: certifi<=2017.4.27 in d:\new folder\libsite-packages (from requests>chart_studio) (2023.7.22)
Requirement already satisfied: idna<=2.0.6,>=1.5 in d:\new folder\libsite-packages (from requests>chart_studio) (3.4)
Requirement already satisfied: plotly in d:\new folder\libsite-packages (from plotly) (8.2.2)
Requirement already satisfied: tenacity<6.2.0 in d:\new folder\libsite-packages (from plotly) (8.2.2)

In [28]: import chart_studio.plotly as py
import plotly.graph_objs as go
import plotly.express as px

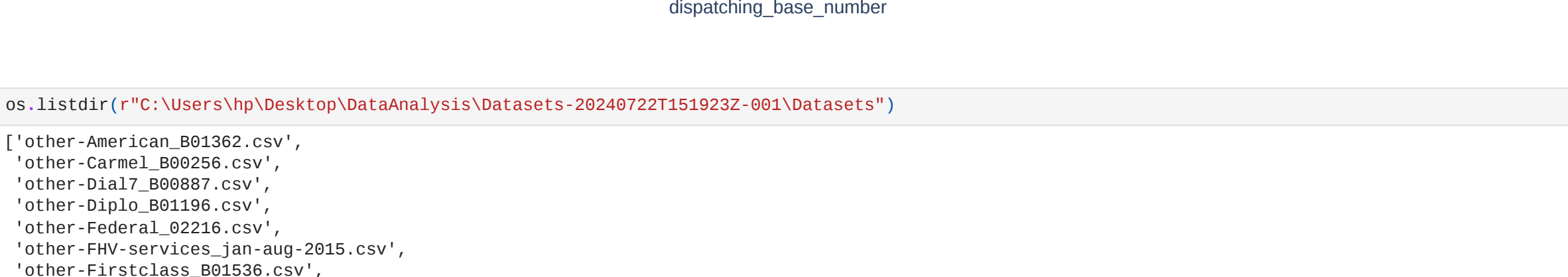
from plotly.offline import download_plotlyjs, init_notebook_mode,plot,iopt

In [29]: init_notebook_mode(connected=True)

In [30]: uber_foill.columns
Out[30]: Index(['disptaching_base_number', 'date', 'active_vehicles', 'trips'], dtype='object')

In [31]: px.box(x='disptaching_base_number',y='active_vehicles',data_frame=uber_foill)
#5 point summary of data
Out[31]:
<Figure with 1 Axes>

In [ ]: 
```



```
In [32]: px.violin(x='disptaching_base_number',y='active_vehicles',data_frame=uber_foill)
#5 point summary of data
Out[32]:
<Figure with 1 Axes>

In [ ]: 
```

Mapping out hotmaps of the user density in NewYork

```
In [34]: files = os.listdir(r"C:\Users\hp\Desktop\DataAnalysis\Datasets-20240722T1519232-001\Datasets")[:8]
In [35]: files
Out[35]: ['Uber-ranw-data-april4.csv',
'Uber-ranw-data-aug14.csv',
'Uber-ranw-data-jan-june-15.csv',
'Uber-ranw-data-jul14.csv',
'Uber-ranw-data-jun14.csv',
'Uber-ranw-data-may14.csv',
'Uber-ranw-data-sep14.csv']

In [36]: files.remove('Uber-ranw-data-jan-june-15.csv')
In [37]: files
Out[37]: ['Uber-ranw-data-april4.csv',
'Uber-ranw-data-aug14.csv',
'Uber-ranw-data-jan-june-15_sample.csv',
'Uber-ranw-data-jul14.csv',
'Uber-ranw-data-jun14.csv',
'Uber-ranw-data-may14.csv',
'Uber-ranw-data-sep14.csv']

In [38]: files.remove('Uber-ranw-data-jan-june-15_sample.csv')
In [39]: files
Out[39]: ['Uber-ranw-data-april4.csv',
'Uber-ranw-data-jul14.csv',
'Uber-ranw-data-jun14.csv',
'Uber-ranw-data-may14.csv',
'Uber-ranw-data-sep14.csv']

In [40]: final = pd.DataFrame()
path=r"C:\Users\hp\Desktop\DataAnalysis\Datasets-20240722T1519232-001\Datasets"
current_df = pd.read_csv(path + '\\\' + file)
final = pd.concat([current_df,final])

In [41]: final.shape
Out[41]: (4534327, 4)

In [42]: final.duplicated().sum()
Out[42]: 82581

In [43]: final.drop_duplicates(inplace=True)
In [44]: final.shape
Out[44]: (4451746, 4)

In [45]: final.head()
Out[45]:
   Date/Time  Lat  Lon  Base
0  9/12/2014 0:01:00  40.2201  -74.0021  B02512
1  9/12/2014 0:01:00  40.7500  -74.0027  B02512
2  9/12/2014 0:02:00  40.7559  -73.9864  B02512
3  9/12/2014 0:00:00  40.7450  -73.9889  B02512
4  9/12/2014 0:11:00  40.8145  -73.9444  B02512
```

Hourly Rush on every day of the week

```
In [61]: pivot.style.background_gradient()

Out[62]:
   hour  0  1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23
0  2135  1494  1256  1330  1429  2125  3654  5380  5292  4617  4607  4729  4950  5194  8933  7510  8633  9511  8604  8001  7315  7851  6268  4503
1  3478  1569  1087  1414  1876  2812  4900  6544  6310  8712  4797  4975  5108  5696  6904  8449  10109  11100  11123  9474  8759  8357  6998  5160
2  3354  2142  1407  1457  1950  2387  4241  5663  5396  4657  4788  5065  5384  6093  7220  8595  10314  10491  11239  9599  9026  8511  7142  4686
3  2897  1088  1199  1424  1696  2581  4592  6029  5714  4744  4743  4975  5193  6175  7158  8515  9482  10557  10259  9097  8388  8649  6706  5130
5  2733  1541  1300  1253  1617  2900  4814  6261  6449  5630  5141  5011  5047  5690  6955  8312  9608  10699  10170  9430  9304  9514  9610  8835  5514
6  4537  3964  1864  1955  1951  2162  3642  4760  4942  4401  4901  5174  5426  6286  7235  8612  9444  9929  8263  8405  8117  6587  7852  5848
7  3645  2296  1597  1597  1763  2422  4102  5675  5732  5639  4005  5146  5346  6214  7276  8474  10393  11013  10573  9473  8681  8525  7314  4801
8  2830  1646  1123  1414  1889  3242  5431  7361  7357  5703  5169  5690  5463  6318  7240  8726  9891  10073  10587  9786  8044  8907  9245  6795  4256
9  2657  1174  1222  1441  1871  3164  5062  7592  7155  5072  5476  5443  5496  6414  7677  9270  10272  11310  11459  9614  8869  9245  7766  5493
10  3036  1605  1099  1424  1842  2510  4564  6876  6871  5386  5215  5423  5513  6486  7503  8900  10225  10888  10621  9327  8824  8730  7771  5360
11  3219  1485  1387  1381  1862  2980  5580  6517  6729  5201  5377  5150  5487  5940  6383  7314  9040  10374  11310  11459  9614  8869  9245  7766  5493
12  3155  2048  1352  1620  1897  2741  4562  6816  6451  5447  5311  5229  5142  5646  6085  7344  8927  10451  10675  10682  9146  8812  8589  6981  4464
13  3020  2185  1382  1620  1892  2959  4688  6616  6451  5447  5311  5229  5142  5646  6085  7344  8927  10451  10675  10682  9146  8812  8589  6981  4464
14  3219  2188  1364  1620  1897  2741  4562  6816  6451  5447  5311  5229  5142  5646  6085  7344  8927  10451  10675  10682  9146  8812  8589  6981  4464
15  4475  3130  2100  1880  1618  1818  2954  4688  6616  6451  5447  5311  5229  5142  5646  6085  7344  8927  10451  10675  10682  9146  8812  8589  6981  4464
16  4294  3131  1972  1727  1628  2615  4815  6727  6820  4707  4911  5212  5142  5646  6085  7344  8927  10451  10675  10682  9146  8812  8589  6981  4464
17  2297  1837  1175  1481  1834  3151  5204  6872  6820  4707  4911  5212  5142  5646  6085  7344  8927  10451  10675  10682  9146  8812  8589  6981  4464
18  2540  1959  1438  1487  1738  2574  4804  6013  5913  5146  4847  5311  5229  5142  5646  6085  7344  8927  10451  10675  10682  9146  8812  8589  6981  4464
19  2403  1499  1072  1143  1943  2376  5767  7027  7079  5944  5342  5604  5604  6204  7338  8732  10242  10674  10712  9543  8781  9541  8882  4666  7659
20  3451  3065  2040  1900  1730  2337  5767  7027  7079  5944  5342  5604  5604  6204  7338  8732  10242  10674  10712  9543  8781  9541  8882  4666  7659
21  5136  3625  2352  2055  1723  2337  5767  7027  7079  5944  5342  5604  5604  6204  7338  8732  10242  10674  10712  9543  8781  9541  8882  4666  7659
22  4122  3625  2352  2055  1723  2337  5767  7027  7079  5944  5342  5604  5604  6204  7338  8732  10242  10674  10712  9543  8781  9541  8882  4666  7659
23  2483  3625  2352  2055  1723  2337  5767  7027  7079  5944  5342  5604  5604  6204  7338  8732  10242  10674  10712  9543  8781  9541  8882  4666  7659
24  2483  3625  2352  2055  1723  2337  5767  7027  7079  5944  5342  5604  5604  6204  7338  8732  10242  10674  10712  9543  8781  9541  8882  4666  7659
```

```
In [61]: pip install pyqt5
#Defaulting to user installation because normal site-packages is not writeable
Requirement already satisfied: pyqt5 in c:\users\hp\appdata\roaming\python\python311\site-packages (5.15.2)
Requirement already satisfied: pyqt5-qt5 in c:\users\hp\appdata\roaming\python\python311\site-packages (5.15.2)
Requirement already satisfied: pyqt5-sip in c:\users\hp\appdata\roaming\python\python311\site-packages (129.7.0)
Requirement already satisfied: sip in d:\new folder\libsite-packages (from pyqt5-sip) (6.7.2)
Requirement already satisfied: pyqt5-qt5 in c:\users\hp\appdata\roaming\python\python311\site-packages (5.15.2)
Requirement already satisfied: pyqt5-sip in c:\users\hp\appdata\roaming\python\python311\site-packages (129.7.0)
Requirement already satisfied: sip in d:\new folder\libsite-packages (from pyqt5-sip) (6.7.2)
Requirement already satisfied: pyqt5-qt5 in c:\users\hp\appdata\roaming\python\python311\site-packages (5.15.2)
Requirement already satisfied: pyqt5-sip in c:\users\hp\appdata\roaming\python\python311\site-packages (129.7.0)
Requirement already satisfied: sip in d:\new folder\libsite-packages (from pyqt5-sip) (6.7.2)
Requirement already satisfied: pyqt5-qt5 in c:\users\hp\appdata\roaming\python\python311\site-packages (5.15.2)
Requirement already satisfied: pyqt5-sip in c:\users\hp\appdata\roaming\python\python311\site-packages (129.7.0)
Requirement already satisfied: sip in d:\new folder\libsite-packages (from pyqt5-sip) (6.7.2)
Requirement already satisfied: pyqt5-qt5 in c:\users\hp\appdata\roaming\python\python311\site-packages (5.15.2)
Requirement already satisfied: pyqt5-sip in c:\users\hp\appdata\roaming\python\python311\site-packages (129.7.0)
Requirement already satisfied: sip in d:\new folder\libsite-packages (from pyqt5-sip) (6.7.2)
Requirement already satisfied: pyqt5-qt5 in c:\users\hp\appdata\roaming\python\python311\site-packages (5.15.2)
Requirement already satisfied: pyqt5-sip in c:\users\hp\appdata\roaming\python\python311\site-packages (129.7.0)
Requirement already satisfied: sip in d:\new folder\libsite-packages (from pyqt5-sip) (6.7.2)
Requirement already satisfied: pyqt5-qt5 in c:\users\hp\appdata\roaming\python\python311\site-packages (5.15.2)
Requirement already satisfied: pyqt5-sip in c:\users\hp\appdata\roaming\python\python311\site-packages (129.7.0)
Requirement already satisfied: sip in d:\new folder\libsite-packages (from pyqt5-sip) (6.7.2)
Requirement already satisfied: pyqt5-qt5 in c:\users\hp\appdata\roaming\python\python311\site-packages (5.15.2)
Requirement already satisfied: pyqt5-sip in c:\users\hp\appdata\roaming\python\python311\site-packages (129.7.0)
Requirement already satisfied: sip in d:\new folder\libsite-packages (from pyqt5-sip) (6.7.2)
Requirement already satisfied: pyqt5-qt5 in c:\users\hp\appdata\roaming\python\python311\site-packages (5.15.2)
Requirement already satisfied: pyqt5-sip in c:\users\hp\appdata\roaming\python\python311\site-packages (129.7.0)
Requirement already satisfied: sip in d:\new folder\libsite-packages (from pyqt5-sip) (6.7.2)
Requirement already satisfied: pyqt5-qt5 in c:\users\hp\appdata\roaming\python\python311\site-packages (5.15.2)
Requirement already satisfied: pyqt5-sip in c:\users\hp\appdata\roaming\python\python311\site-packages (129.7.0)
Requirement already satisfied: sip in d:\new folder\libsite-packages (from pyqt5-sip) (6.7.2)
Requirement already satisfied: pyqt5-qt5 in c:\users\hp\appdata\roaming\python\python311\site-packages (5.15.2)
Requirement already satisfied: pyqt5-sip in c:\users\hp\appdata\roaming\python\python311\site-packages (129.7.0)
Requirement already satisfied: sip in d:\new folder\libsite-packages (from pyqt5-sip) (6.7.2)
Requirement already satisfied: pyqt5-qt5 in c:\users\hp\appdata\roaming\python\python311\site-packages (5.15.2)
Requirement already satisfied: pyqt5-sip in c:\users\hp\appdata\roaming\python\python311\site-packages (129.7.0)
Requirement already satisfied: sip in d:\new folder\libsite-packages (from pyqt5-sip) (6.7.2)
Requirement already satisfied: pyqt5-qt5 in c:\users\hp\appdata\roaming\python\python311\site-packages (5.15.2)
Requirement already satisfied: pyqt5-sip in c:\users\hp\appdata\roaming\python\python311\site-packages (129.7.0)
Requirement already satisfied: sip in d:\new folder\libsite-packages (from pyqt5-sip) (6.7.2)
Requirement already satisfied: pyqt5-qt5 in c:\users\hp\appdata\roaming\python\python311\site-packages (5.15.2)
Requirement already satisfied: pyqt5-sip in c:\users\hp\appdata\roaming\python\python311\site-packages (129.7.0)
Requirement already satisfied: sip in d:\new folder\libsite-packages (from pyqt5-sip) (6.7.2)
Requirement already satisfied: pyqt5-qt5 in c:\users\hp\appdata\roaming\python\python311\site-packages (5.15.2)
Requirement already satisfied: pyqt5-sip in c:\users\hp\appdata\roaming\python\python311\site-packages (129.7.0)
Requirement already satisfied: sip in d:\new folder\libsite-packages (from pyqt5-sip) (6.7.2)
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Requirement already satisfied: pyqt5-sip in c:\users\hp\appdata\roaming\python\python311\site-packages (129.7.0)
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