

# Ex.No: 01A PLOT A TIME SERIES DATA

Date:

## AIM:

To Develop a python program to Plot a time series data of power consumption.

## ALGORITHM:

1. Import the required packages like pandas and matplotlib
2. Read the dataset using the pandas
3. Calculate the mean for the respective column.
4. Plot the data according to need and can be altered monthly, or yearly.
5. Display the graph.

## PROGRAM:

```
import pandas as pd
import matplotlib.pyplot as plt
data = pd.read_csv("/content/KwhConsumptionBlower78_1.csv")
data.head()
data['TxnDate']=pd.to_datetime(data['TxnDate'])
data.set_index('TxnDate',inplace=True)
plt.plot(data.index,data['Consumption'],label='Consumption')
plt.title("Daily Power Consumption")
plt.xlabel("TxnDate")
plt.xticks(rotation=45)
plt.ylabel("Consumption")
plt.grid(True)
plt.legend()
plt.show()
```

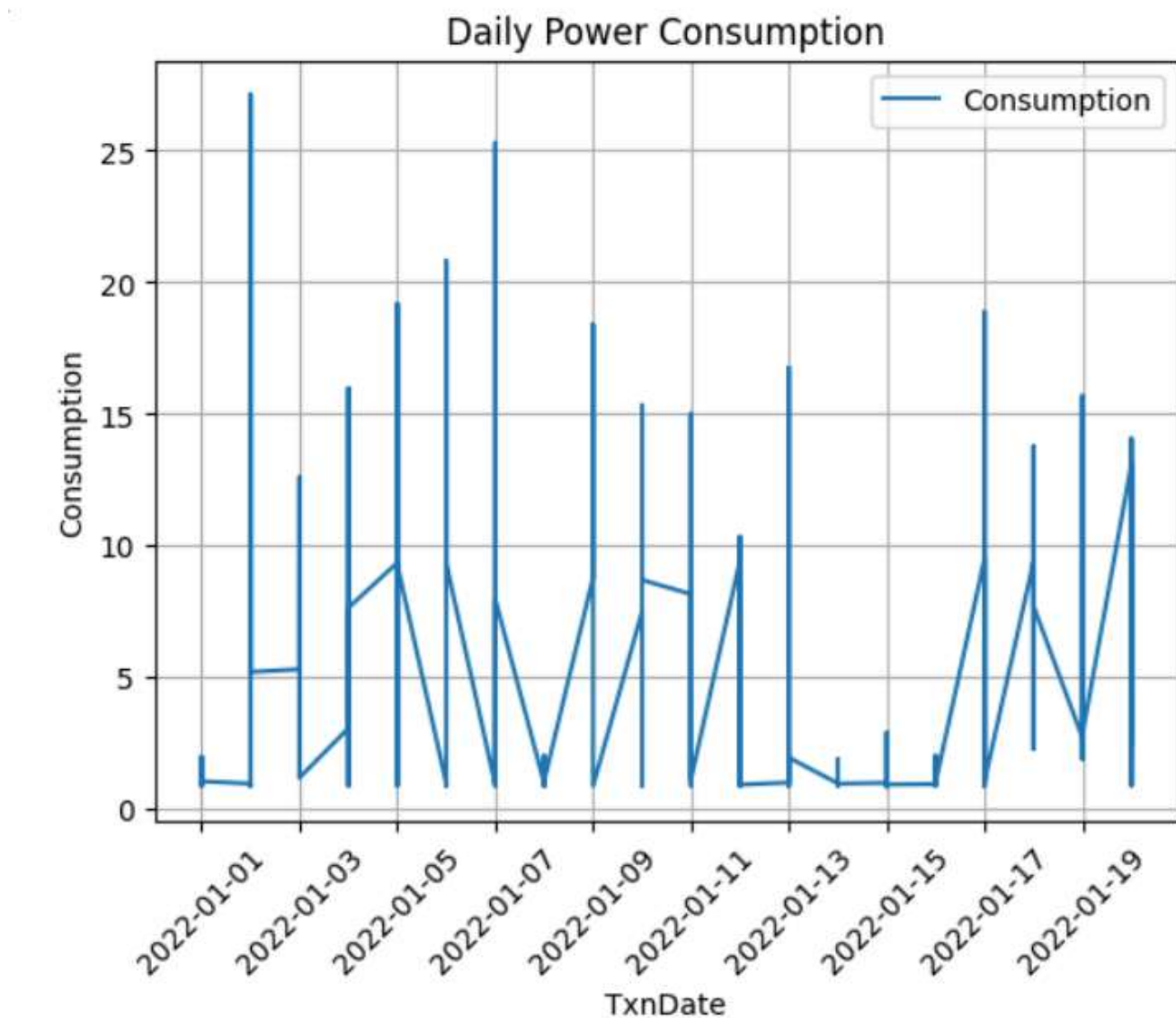


## Dataset:



	Unnamed: 0	TxnDate	TxnTime	Consumption
0	76229	01 Jan 2022	16:55:52	1.010
1	76258	01 Jan 2022	21:45:29	0.908
2	76287	01 Jan 2022	12:24:52	0.926
3	76316	01 Jan 2022	04:07:36	0.928
4	76345	01 Jan 2022	06:52:25	0.916

# OUTPUT:



## RESULT:

Thus we have created the python code for plotting the time series of given dataset.