

```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
```

```
# reading the dataset using read_csv
df = pd.read_csv("/content/stock_data.csv", parse_dates=True, index_col="Date")
```

```
# displaying the first five rows of dataset
df.head()
```

```
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NameError                                Traceback (most recent call last)
<ipython-input-1-3ecdff60a9f1> in <cell line: 2>()
      1 # reading the dataset using read_csv
----> 2 df = pd.read_csv("/content/stock_data.csv", parse_dates=True, index_col="Date")
      3
      4 # displaying the first five rows of dataset
      5 df.head()

NameError: name 'pd' is not defined
```

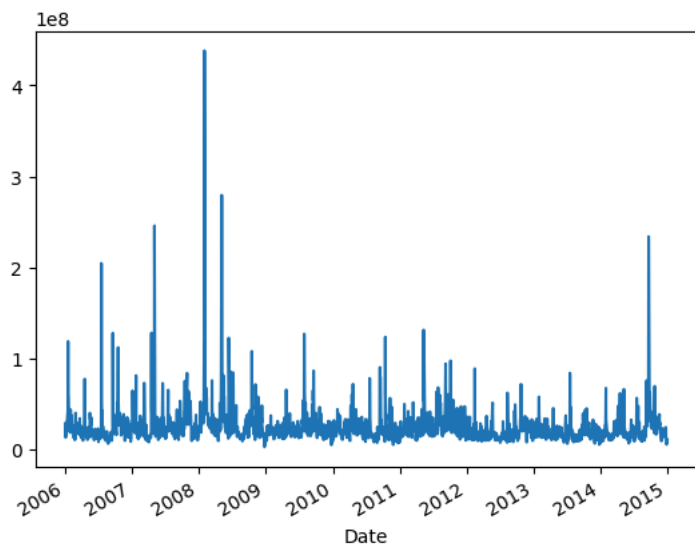
+ Code

+ Text

```
# deleting column
df=df.drop(columns='Name',axis=1)
```

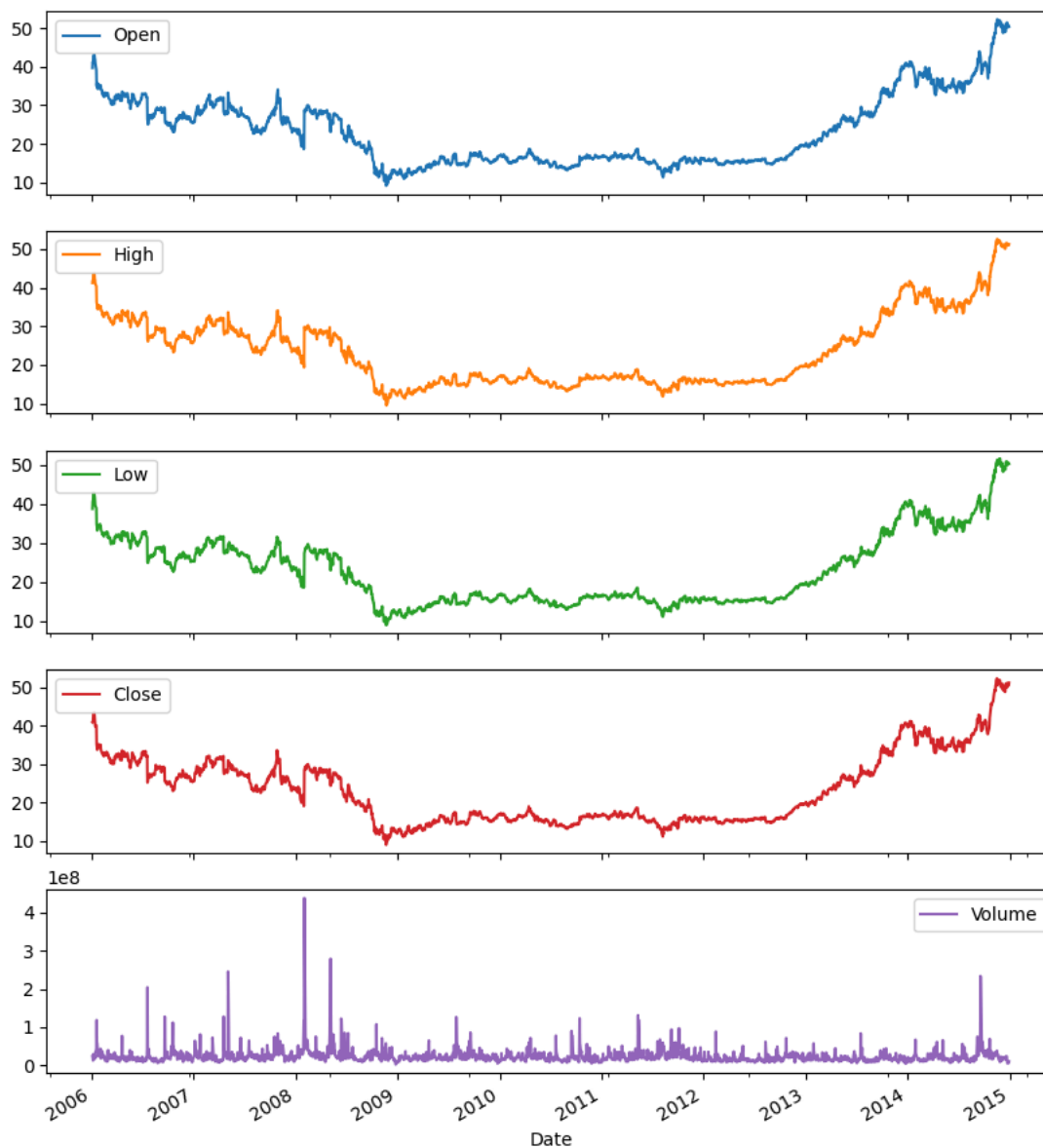
```
df['Volume'].plot()
```

```
<Axes: xlabel='Date'>
```



```
df.plot(subplots=True, figsize=(10, 12))
```


```
array([<Axes: xlabel='Date'>, <Axes: xlabel='Date'>,
      <Axes: xlabel='Date'>, <Axes: xlabel='Date'>,
      <Axes: xlabel='Date'>], dtype=object)
```

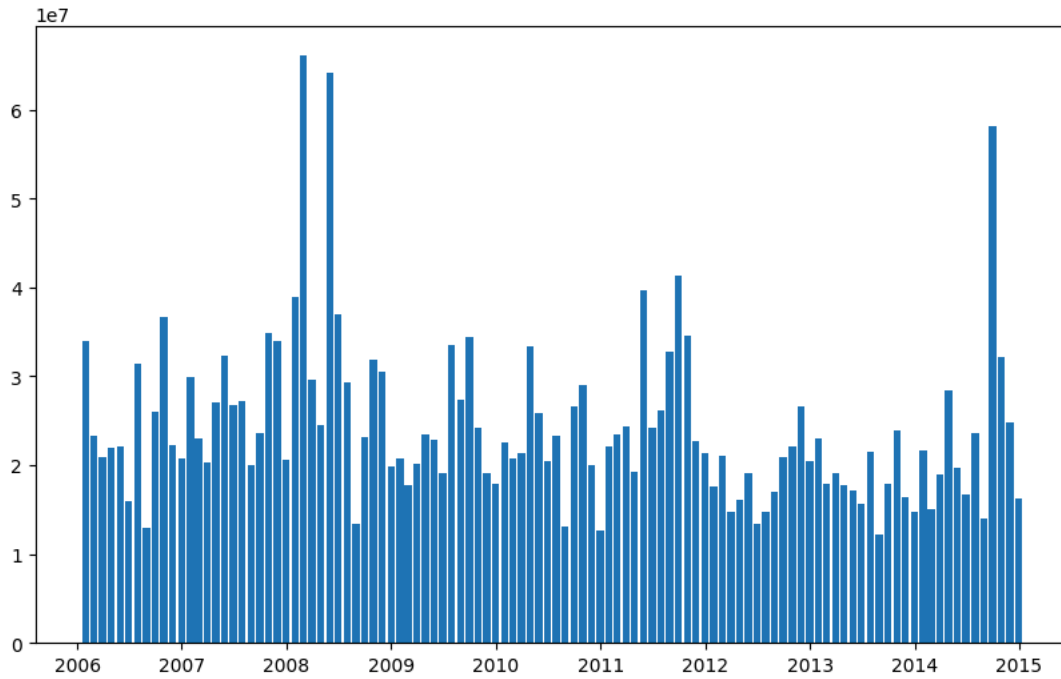


```
df_month = df.resample("M").mean()


# using subplot
fig, ax = plt.subplots(figsize=(10, 6))

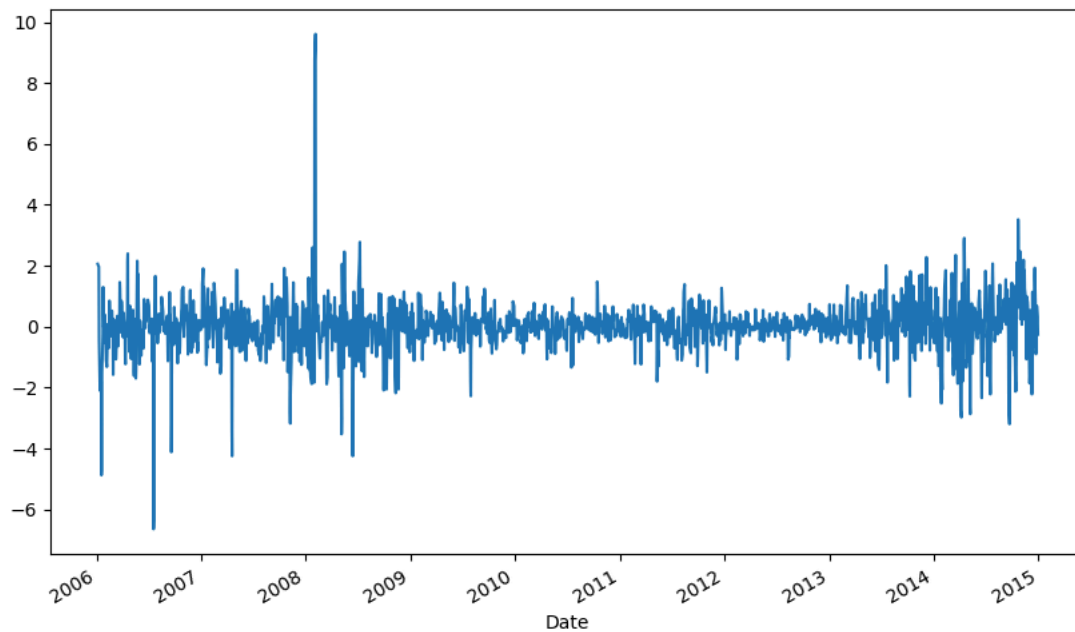
# plotting bar graph
ax.bar(df_month['2006:'].index,
      df_month.loc['2006:', "Volume"],
      width=25, align='center')
```

 <BarContainer object of 108 artists>



```
df.Low.diff(2).plot(figsize=(10, 6))
```

 <Axes: xlabel='Date'>



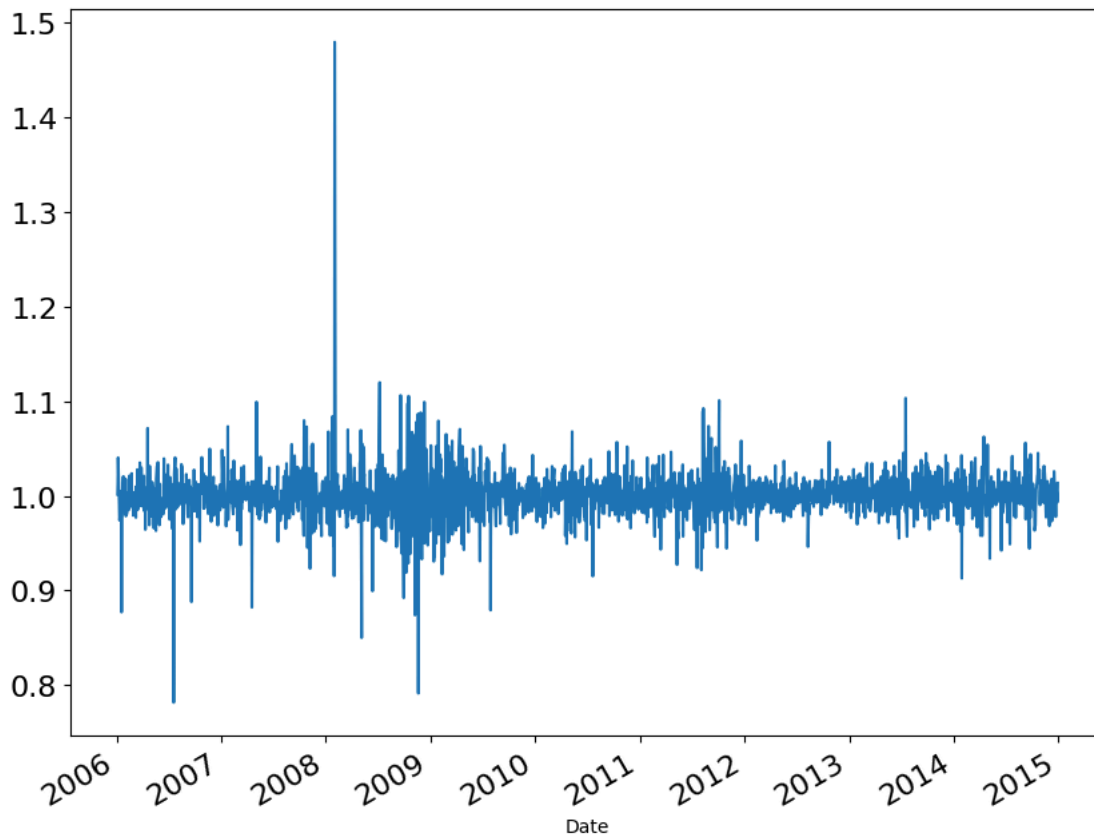
```
df.High.diff(2).plot(figsize=(10, 6))
```

<Axes: xlabel='Date'>



```
df['Change'] = df.Close.div(df.Close.shift())  
df['Change'].plot(figsize=(10, 8), fontsize=16)
```

<Axes: xlabel='Date'>



```
df['2007']['Change'].plot(figsize=(10, 6))
```

<Axes: xlabel='Date'>

```
-----  
KeyError                                Traceback (most recent call last)  
/usr/local/lib/python3.10/dist-packages/pandas/core/indexes/base.py in  
get_loc(self, key)
```