In [78]:

```
!pip install yfinance
```

```
Requirement already satisfied: yfinance in c:\users\admin\anaconda3\lib\site-packages (0.2.28)
Requirement already satisfied: numpy>=1.16.5 in c:\users\admin\anaconda3\lib\site-packages (from yfinance) (1.21.5)
Requirement already satisfied: lxml>=4.9.1 in c:\users\admin\anaconda3\lib\site-packages (from yfinance) (4.9.3)
Requirement already satisfied: multitasking>=0.0.7 in c:\users\admin\anaconda3\lib\site-packages (from yfinance) (0.0.11)
Requirement already satisfied: frozendict>=2.3.4 in c:\users\admin\anaconda3\lib\site-packages (from yfinance) (2.3.8)
Requirement already satisfied: requests>=2.31 in c:\users\admin\anaconda3\lib\site-packages (from yfinance) (2.31.0)
Requirement already satisfied: html5lib>=1.1 in c:\users\admin\anaconda3\lib\site-packages (from yfinance) (1.1)
Requirement already satisfied: pytz>=2022.5 in c:\users\admin\anaconda3\lib\site-packages (from yfinance) (2023.3)
Requirement already satisfied: appdirs>=1.4.4 in c:\users\admin\anaconda3\lib\site-packages (from yfinance) (1.4.4)
Requirement already satisfied: beautifulsoup4>=4.11.1 in c:\users\admin\anaconda3\lib\site-packages (from yfinance) (4.11.
1)
Requirement already satisfied: pandas>=1.3.0 in c:\users\admin\anaconda3\lib\site-packages (from yfinance) (1.4.2)
Requirement already satisfied: soupsieve>1.2 in c:\users\admin\anaconda3\lib\site-packages (from beautifulsoup4>=4.11.1->yf
inance) (2.3.1)
Requirement already satisfied: webencodings in c:\users\admin\anaconda3\lib\site-packages (from html5lib>=1.1->yfinance)
(0.5.1)
Requirement already satisfied: six>=1.9 in c:\users\admin\anaconda3\lib\site-packages (from html5lib>=1.1->yfinance) (1.16.
0)
Requirement already satisfied: python-dateutil>=2.8.1 in c:\users\admin\anaconda3\lib\site-packages (from pandas>=1.3.0->yf
inance) (2.8.2)
Requirement already satisfied: certifi>=2017.4.17 in c:\users\admin\anaconda3\lib\site-packages (from requests>=2.31->yfina
nce) (2021.10.8)
Requirement already satisfied: charset-normalizer<4,>=2 in c:\users\admin\anaconda3\lib\site-packages (from requests>=2.31-
>yfinance) (2.0.4)
Requirement already satisfied: urllib3<3,>=1.21.1 in c:\users\admin\anaconda3\lib\site-packages (from requests>=2.31->yfina
nce) (1.26.9)
Requirement already satisfied: idna<4,>=2.5 in c:\users\admin\anaconda3\lib\site-packages (from requests>=2.31->yfinance)
(3.3)
```

In [79]:

```
!pip install bs4
```

```
Requirement already satisfied: bs4 in c:\users\admin\anaconda3\lib\site-packages (0.0.1)
Requirement already satisfied: beautifulsoup4 in c:\users\admin\anaconda3\lib\site-packages (from bs4) (4.11.1)
Requirement already satisfied: soupsieve>1.2 in c:\users\admin\anaconda3\lib\site-packages (from beautifulsoup4->bs4) (2.3.
1)
```

In [89]:

```
import yfinance as yf
import pandas as pd
import requests
from bs4 import Beautifulsoup
import plotly.graph_objects as go
from plotly.subplots import make_subplots
```

```
---------------------------------------------------------------------------
ImportError                               Traceback (most recent call last)
Input In [89], in <cell line: 4>()
      2 import pandas as pd
      3 import requests
----> 4 from bs4 import Beautifulsoup
      5 import plotly.graph_objects as go
      6 from plotly.subplots import make_subplots

ImportError: cannot import name 'Beautifulsoup' from 'bs4' (C:\Users\Admin\anaconda3\lib\site-packages\bs4\__init__.py)
```

In [90]:

```
def make_graph(stock_data, revenue_data, stock):
    fig = make_subplots(rows=2, cols=1, shared_xaxes=True, subplot_titles=("Historical Share Price", "Historical Revenue"), vertical_spaci
    fig.add_trace(go.Scatter(x=pd.to_datetime(stock_data.Date, infer_datetime_format=True), y=stock_data.Close.astype("float"), name="Shar
    fig.add_trace(go.Scatter(x=pd.to_datetime(revenue_data.Date, infer_datetime_format=True), y=revenue_data.Revenue.astype("float"), name
    fig.update_xaxes(title_text="Date", row=1, col=1)
    fig.update_xaxes(title_text="Date", row=2, col=1)
    fig.update_yaxes(title_text="Price ($US)", row=1, col=1)
    fig.update_yaxes(title_text="Revenue ($US Millions)", row=2, col=1)
    fig.update_layout(showlegend=False,
    height=900,
    title=stock,
    xaxis_rangeslider_visible=True)
    fig.show()
```

In [91]:

```
tesla = yf.Ticker("TSLA")
```

In [92]:

```
tesla_data = tesla.history(period="max")
```

In [93]:

```
tesla_data.reset_index(inplace=True)
tesla_data.head()
```

Out[93]:

	Date	Open	High	Low	Close	Volume	Dividends	Stock Splits
0	2010-06-29 00:00:00-04:00	1.266667	1.666667	1.169333	1.592667	281494500	0.0	0.0
1	2010-06-30 00:00:00-04:00	1.719333	2.028000	1.553333	1.588667	257806500	0.0	0.0
2	2010-07-01 00:00:00-04:00	1.666667	1.728000	1.351333	1.464000	123282000	0.0	0.0
3	2010-07-02 00:00:00-04:00	1.533333	1.540000	1.247333	1.280000	77097000	0.0	0.0
4	2010-07-06 00:00:00-04:00	1.333333	1.333333	1.055333	1.074000	103003500	0.0	0.0

In [94]:

```
url = "https://www.macrotrends.net/stocks/charts/TSLA/tesla/revenue"
html_data=requests.get(url).text
```

In [95]:

```
soup = Beautifulsoup(html_data,"html5lib")
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
Input In [95], in <cell line: 1>()
----> 1 soup = Beautifulsoup(html_data,"html5lib")

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

In [96]:

```
tesla_revenue= pd.read_html(url, match="Tesla Quarterly Revenue", flavor='bs4')[0]
tesla_revenue=tesla_revenue.rename(columns = {'Tesla Quarterly Revenue(Millions of US $)': 'Date', 'Tesla Quarterly Revenue(Millions of US
tesla_revenue["Revenue"] = tesla_revenue["Revenue"].str.replace(",","").str.replace("$","")
tesla_revenue.head()
```

```
---------------------------------------------------------------------------
HTTPError                                 Traceback (most recent call last)
Input In [96], in <cell line: 1>()
----> 1 tesla_revenue= pd.read_html(url, match="Tesla Quarterly Revenue", flavor='bs4')[0]
      2 tesla_revenue=tesla_revenue.rename(columns = {'Tesla Quarterly Revenue(Millions of US $)': 'Date', 'Tesla Quarte
rly Revenue(Millions of US $).1': 'Revenue'}, inplace = False)
      3 tesla_revenue["Revenue"] = tesla_revenue["Revenue"].str.replace(",","").str.replace("$","")

File ~\anaconda3\lib\site-packages\pandas\util\_decorators.py:311, in deprecate_nonkeyword_arguments.<locals>.decorate.<
locals>.wrapper(*args, **kwargs)
    305 if len(args) > num_allow_args:
    306     warnings.warn(
    307         msg.format(arguments=arguments),
    308         FutureWarning,
    309         stacklevel=stacklevel,
    310     )
--> 311 return func(*args, **kwargs)

File ~\anaconda3\lib\site-packages\pandas\io\html.py:1113, in read_html(io, match, flavor, header, index_col, skiprows,
```

In [ ]:

```
tesla_revenue
```

In [97]:

```
tesla_revenue.dropna(inplace=True)
tesla_revenue.tail()
```

Out[97]:

	Date	Revenue

In [107]:

```
url="https://www.macrotrends.net/stocks/charts/TSLA/tesla/revenue,"
html_data=requests.get(url).text
```

In [108]:

```
gamestop = yf.Ticker("GME")
```

In [109]:

```
gme_data=gamestop.history(period="max")
```

In [110]:

```
gme_data.reset_index(inplace=True)
gme_data.head()
```

Out[110]:

	Date	Open	High	Low	Close	Volume	Dividends	Stock Splits
0	2002-02-13 00:00:00-05:00	1.620129	1.693350	1.603296	1.691667	76216000	0.0	0.0
1	2002-02-14 00:00:00-05:00	1.712707	1.716074	1.670626	1.683250	11021600	0.0	0.0
2	2002-02-15 00:00:00-05:00	1.683250	1.687458	1.658002	1.674834	8389600	0.0	0.0
3	2002-02-19 00:00:00-05:00	1.666417	1.666417	1.578047	1.607504	7410400	0.0	0.0
4	2002-02-20 00:00:00-05:00	1.615921	1.662210	1.603296	1.662210	6892800	0.0	0.0

In [111]:

```
soup = BeautifulSoup(html_data,"html5lib")
```

```
---------------------------------------------------------------------------
FeatureNotFound                           Traceback (most recent call last)
Input In [111], in <cell line: 1>()
----> 1 soup = BeautifulSoup(html_data,"html5lib")

File ~\anaconda3\lib\site-packages\bs4\__init__.py:248, in BeautifulSoup.__init__(self, markup, features, builder, parse_on
ly, from_encoding, exclude_encodings, element_classes, **kwargs)
    246     builder_class = builder_registry.lookup(*features)
    247     if builder_class is None:
--> 248         raise FeatureNotFound(
    249             "Couldn't find a tree builder with the features you "
    250             "requested: %s. Do you need to install a parser library?"
    251             % ",".join(features))
    253 # At this point either we have a TreeBuilder instance in
    254 # builder, or we have a builder_class that we can instantiate
    255 # with the remaining **kwargs.
    256 if builder is None:

FeatureNotFound: Couldn't find a tree builder with the features you requested: html5lib. Do you need to install a parser li
brary?
```

In [113]:

```
gme_revenue= pd.read_html(url, match="GameStop Quarterly Revenue", flavor='bs4')[0]
gme_revenue=gme_revenue.rename(columns = {'GameStop Quarterly Revenue(Millions of US $)': 'Date', 'GameStop Quarterly Revenue(Millions of
gme_revenue["Revenue"] = gme_revenue["Revenue"].str.replace(",","").str.replace("$","")
```

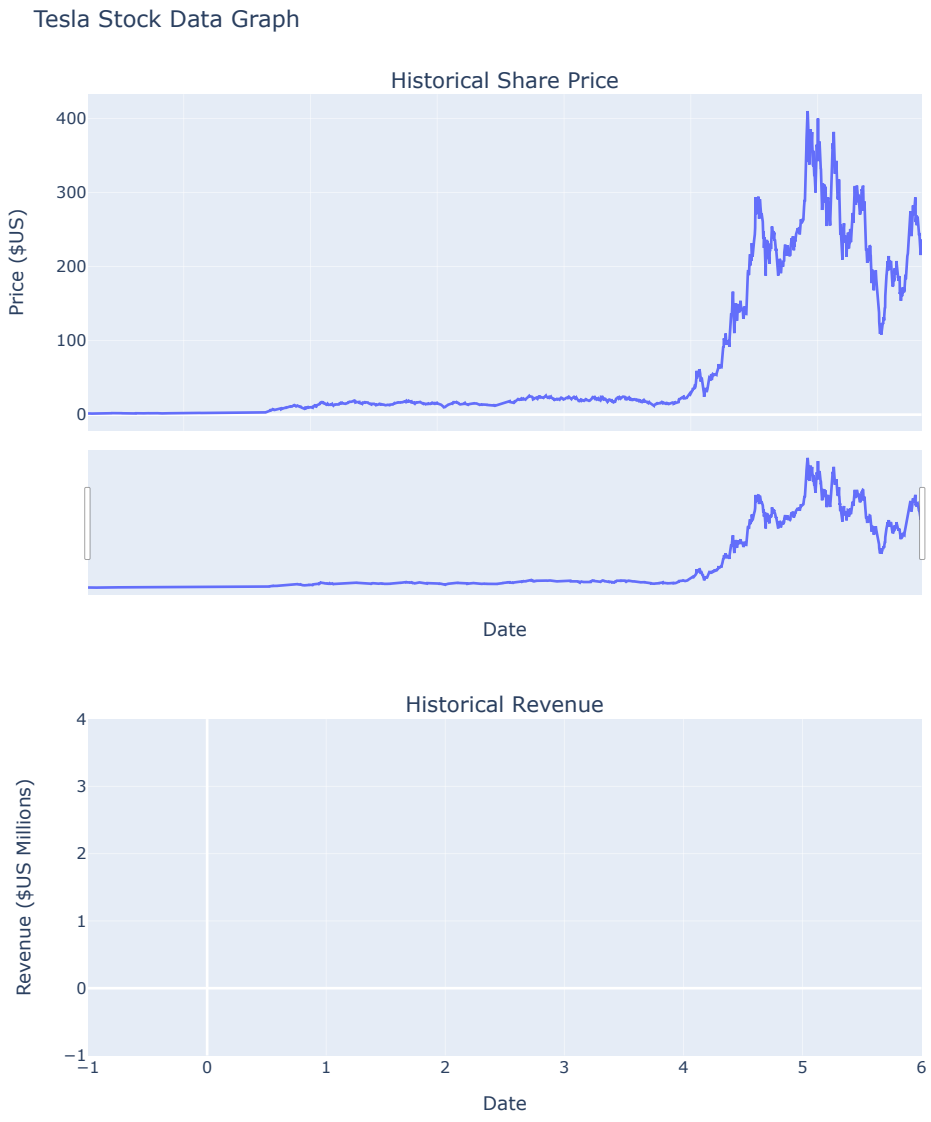
```
---------------------------------------------------------------------------
HTTPError                                 Traceback (most recent call last)
Input In [113], in <cell line: 1>()
----> 1 gme_revenue= pd.read_html(url, match="GameStop Quarterly Revenue", flavor='bs4')[0]
      2 gme_revenue=gme_revenue.rename(columns = {'GameStop Quarterly Revenue(Millions of US $)': 'Date', 'GameStop Quar
terly Revenue(Millions of US $).1': 'Revenue'}, inplace = True)
      3 gme_revenue["Revenue"] = gme_revenue["Revenue"].str.replace(",","").str.replace("$","")

File ~\anaconda3\lib\site-packages\pandas\util\_decorators.py:311, in deprecate_nonkeyword_arguments.<locals>.decorate.<
locals>.wrapper(*args, **kwargs)
    305 if len(args) > num_allow_args:
    306     warnings.warn(
    307         msg.format(arguments=arguments),
    308         FutureWarning,
    309         stacklevel=stacklevel,
    310     )
--> 311 return func(*args, **kwargs)

File ~\anaconda3\lib\site-packages\pandas\io\html.py:1113, in read_html(io, match, flavor, header, index_col, skiprows,
```

In [ ]:

```
gme_revenue.dropna(inplace=True)
gme_revenue.tail()
```

In [105]:

```
make_graph(tesla_data, tesla_revenue, 'Tesla Stock Data Graph')
```



In [112]:

```
make_graph(gme_data, gme_revenue, 'GameStop Stock Data Graph')
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
Input In [112], in <cell line: 1>()
----> 1 make_graph(gme_data, gme_revenue, 'GameStop Stock Data Graph')

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

In [ ]:

In [ ]: