jupyter Stock Data web scrapping and Visualization Last Checkpoint: 11 minutes ago (autosaved)

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Run Code

In [4]:
```
import pandas as pd
import plotly.graph_objects as plt
import requests
import json
import os #operating system
apikey = os.environ.get("apikey") #to call api key save on the pc
```

In [24]:
```
r = requests.get(f"https://financialmodelingprep.com/api/v3/historical-price-full/zm?timeseries=180&apikey={apikey}") #gettin
r = r.json()
historical = r["historical"] #historical is the dictionary
df = pd.DataFrame(historical)
df
```

Out[24]:

	date	open	high	low	close	adjClose	volume	unadjustedVolume	change	changePercent	vwap	label	changeOverTime
0	2023-04-28	61.290	61.9600	60.4500	61.43	61.430000	4253829	4220692	0.140	0.22842	61.25	April 28, 23	0.002284
1	2023-04-27	62.040	62.4050	61.1900	61.29	61.290001	3853241	3853200	-0.750	-1.21000	61.61	April 27, 23	-0.012100
2	2023-04-26	64.160	64.4800	60.9100	61.43	61.430000	4203270	4203300	-2.730	-4.25000	62.29	April 26, 23	-0.042500
3	2023-04-25	65.010	65.1819	63.0201	63.05	63.049999	4299169	4299200	-1.960	-3.01000	63.72	April 25, 23	-0.030100
4	2023-04-24	63.910	67.6700	62.6100	65.80	65.800003	12937127	12934600	1.890	2.96000	65.57	April 24, 23	0.029600
...	...	...	...	...	...	...	...	...	...	...	...	...	...
175	2022-08-17	106.220	107.3500	102.0200	102.38	102.379997	4257231	4257200	-3.840	-3.62000	103.56	August 17, 22	-0.036200
176	2022-08-16	107.815	109.9300	103.3200	109.19	109.190002	7520089	7520100	1.375	1.28000	107.09	August 16, 22	0.012800

In [38]:
```
fig = go.Figure(data=[go.Candlestick(x=df['date'],open=df['open'],high=df['high'],low=df['low'],close=df['close'])]) #show th

fig.update_layout(title="Candlestick Chart for Zoom ",yaxis_title="Price")
fig.show()
```

In [31]:
```
ck(symbol,days):  #created a function candlestick and arguments symbol and days
sts.get(f"https://financialmodelingprep.com/api/v3/historical-price-full/{symbol}?timeseries={days}&apikey={apikey}") #replac
n()
l = r["historical"] #
ataFrame(historical)

Figure(data=[go.Candlestick(x=df['date'],open=df['open'],high=df['high'],low=df['low'],close=df['close'])]) #show the columns

e_layout(title="Candlestick Chart for "+ symbol,yaxis_title="Price") #include symbol in this line
)    #using this function you can visualize any stocks for by specifying the stock symbol and days as shown in the next line
```

In [33]:
```
candlestick("zm",180) #showing zoom stocks for 180 days
```

In [35]:
```
candlestick("tsla",365) #showing tesla stocks for a year
```

In [36]:
```
candlestick("msft",180) #stocks for Microsoft
```

In [37]:
```
candlestick("amzn",180) #stocks for amazon for the past year
```

In [ ]: