Question 1: Use yfinance to Extract Stock Data

Using the `Ticker` function enter the ticker symbol of the stock we want to extract data on to create a ticker object. The stock is Tesla and its ticker symbol is `TSLA`.

```
import yfinance as yf

# Create a ticker object for Tesla
tesla = yf.Ticker("TSLA")
```

[6] Python

Using the ticker object and the function `history` extract stock information and save it in a dataframe named `tesla_data`. Set the `period` parameter to `"max"` so we get information for the maximum amount of time.

```
# Extract historical data for the maximum available period
tesla_data = tesla.history(period="max")
```

[7] Python

Reset the index using the `reset_index(inplace=True)` function on the tesla_data DataFrame and display the first five rows of the `tesla_data` dataframe using the `head` function. Take a screenshot of the results and code from the beginning of Question 1 to the results below.

```
# Question 1: Import yfinance and create a Ticker object for Tesla
import yfinance as yf

# Create the ticker object for Tesla
tesla = yf.Ticker("TSLA")

# Question 2: Extract historical stock data (maximum available)
tesla_data = tesla.history(period="max")

# Reset the index to move 'Date' from index to a column
tesla_data.reset_index(inplace=True)

# Display the first five rows of the dataframe
print(tesla_data.head())
```

```
                       Date      Open      High       Low     Close  \
0 2010-06-29 00:00:00-04:00  1.266667  1.666667  1.169333  1.592667
1 2010-06-30 00:00:00-04:00  1.719333  2.028000  1.553333  1.588667
2 2010-07-01 00:00:00-04:00  1.666667  1.728000  1.351333  1.464000
3 2010-07-02 00:00:00-04:00  1.533333  1.540000  1.247333  1.280000
4 2010-07-06 00:00:00-04:00  1.333333  1.333333  1.055333  1.074000

     Volume  Dividends  Stock Splits
0  281494500        0.0           0.0
1  257806500        0.0           0.0
2  123282000        0.0           0.0
3   77097000        0.0           0.0
4  103003500        0.0           0.0
```