In [77]:

```
import yahoo_fin
import requests
import pandas as pd
from selenium import webdriver
from bs4 import BeautifulSoup
from yahoo_fin import stock_info as si
import urllib
import string
import urllib.request
from urllib.request import urlopen
import http.cookiejar
```

In [69]:

```
#taking input ticker
ticker= input("Enter Ticker: ")
```

```
Enter Ticker: AMZN
```

In [70]:

```
quote_table = si.get_quote_table(ticker)
quote_table
```

```
/Users/D21/opt/anaconda3/lib/python3.9/site-packages/yahoo_fin/stock_info.p
y:295: FutureWarning: The frame.append method is deprecated and will be remo
ved from pandas in a future version. Use pandas.concat instead.
  data = tables[0].append(tables[1])
/Users/D21/opt/anaconda3/lib/python3.9/site-packages/yahoo_fin/stock_info.p
y:302: FutureWarning: The frame.append method is deprecated and will be remo
ved from pandas in a future version. Use pandas.concat instead.
  data = data.append(quote_price)
```

Out[70]:

```
{'1y Target Est': 173.07,
 '52 Week Range': '101.26 - 188.11',
 'Ask': '0.00 x 800',
 'Avg. Volume': 61447454.0,
 'Beta (5Y Monthly)': 1.33,
 'Bid': '0.00 x 1800',
 "Day's Range": '130.76 - 133.69',
 'EPS (TTM)': 1.12,
 'Earnings Date': 'Oct 26, 2022 - Oct 31, 2022',
 'Ex-Dividend Date': nan,
 'Forward Dividend & Yield': 'N/A (N/A)',
 'Market Cap': '1.358T',
 'Open': 130.91,
 'PE Ratio (TTM)': 118.99,
 'Previous Close': 129.82,
 'Quote Price': 133.27000427246094,
 'Volume': 49422259.0}
```

In [71]:

```
#input 1- Earnings Per Share (Trailing Twelve Months)
eps= quote_table['EPS (TTM)']
print(eps)
type(eps)
```

```
1.12
```

Out[71]:

```
float
```

In [72]:

```
# Create an URL object
url = 'https://ycharts.com/companies/'+ticker+'/pe_ratio'
agent = {"User-Agent":'Mozilla/5.0 (Windows NT 6.3; WOW64) AppleWebKit/537.3
page = requests.get(url, headers=agent)
# parser-lxml = Change html to Python friendly format
# Obtain page's information
soup = BeautifulSoup(page.content, 'lxml')
#soup
```

```
# Obtain information from tag <table>
table1 = soup.find_all('div', {'class': 'key-stat-title'})

print(table1)
headers = []
for i in table1:
    title = i.text
    headers.append(title)
```

```
[<div class="key-stat-title">


                                41.94


                        </div>, <div class="key-stat-title">


                                303.51


                        </div>, <div class="key-stat-title">


                                110.31


                        </div>, <div class="key-stat-title">


                                82.64


                        </div>]
```

In [73]:

```
#input 2- 5 year historical Average Price to Earning Ratio
str1 = headers[2].strip()
fyhap = float(str1)
print(fyhap)
type(fyhap)
```

```
110.31
```

Out[73]:

```
float
```

In [74]:

```
analyst_info=si.get_analysts_info(ticker)
analyst_info
```

Out[74]:

```
{'Earnings Estimate':   Earnings Estimate  Current Qtr. (Sep 2022)  Next Qt
r. (Dec 2022)  \
 0   No. of Analysts                    33.00                 31.00
 1     Avg. Estimate                     0.21                  0.41
 2      Low Estimate                    -0.05                  0.11
 3     High Estimate                     0.39                  0.65
 4      Year Ago EPS                     0.31                  1.39

    Current Year (2022)  Next Year (2023)
 0                39.00            43.00
 1                 0.11             2.31
 2                -0.45             1.02
 3                 1.45             3.47
 4                 3.24             0.11  ,
 'Revenue Estimate':           Revenue Estimate Current Qtr. (Sep 2022) Next
Qtr. (Dec 2022)  \
 0          No. of Analysts                      37                   36
 1            Avg. Estimate                 127.91B              156.29B
 2             Low Estimate                    125B              132.24B
 3            High Estimate                 130.62B              165.93B
 4           Year Ago Sales                 110.81B              137.41B
 5  Sales Growth (year/est)                  15.40%               13.70%

   Current Year (2022) Next Year (2023)
 0                  46               46
 1             521.99B          602.24B
 2             494.92B          574.12B
 3             534.23B          640.27B
 4             469.82B          521.99B
 5              11.10%           15.40%  ,
 'Earnings History':   Earnings History 9/29/2021 12/30/2021 3/30/2022 6/29/
2022
 0         EPS Est.      0.45       0.18      0.42      0.14
 1       EPS Actual      0.31       1.39     -0.38      -0.2
 2       Difference     -0.14       1.21      -0.8     -0.34
 3       Surprise %   -31.10%    672.20%  -190.50%  -242.90%,
 'EPS Trend':          EPS Trend  Current Qtr. (Sep 2022)  Next Qtr. (Dec 2
022)  \
 0  Current Estimate                     0.21                  0.41
 1        7 Days Ago                     0.22                  0.41
 2       30 Days Ago                     0.22                  0.41
 3       60 Days Ago                     0.38                  0.56
 4       90 Days Ago                     0.40                  0.58

    Current Year (2022)  Next Year (2023)
 0                 0.11             2.31
 1                 0.08             2.35
 2                 0.05             2.36
 3                 0.73             2.68
 4                 0.81             2.70  ,
 'EPS Revisions':        EPS Revisions  Current Qtr. (Sep 2022)  Next Qtr.
(Dec 2022)  \
 0     Up Last 7 Days                      NaN                   NaN
 1    Up Last 30 Days                      NaN                   NaN
 2   Down Last 7 Days                      NaN                   NaN
 3  Down Last 30 Days                      1.0                   NaN

    Current Year (2022)  Next Year (2023)
 0                  NaN              NaN
 1                  1.0              NaN
 2                  NaN              NaN
 3                  2.0              2.0  ,
 'Growth Estimates':            Growth Estimates       AMZN  Industry  Secto
r(s)  S&P 500
0                Current Qtr.    -32.30%        NaN         NaN        NaN
1                   Next Qtr.    -70.50%        NaN         NaN        NaN
2                Current Year    -96.60%        NaN         NaN        NaN
3                   Next Year  2,000.00%        NaN         NaN        NaN
4  Next 5 Years (per annum)       33.25%        NaN         NaN        NaN
5  Past 5 Years (per annum)       49.57%        NaN         NaN        NaN}
```

In [75]:

```
#input 3- Expected Growth Rate
exp_growth_rate=analyst_info['Growth Estimates'][ticker][4]
exp_gr=exp_growth_rate[:-1]
exp_gr=float(exp_gr)
print(exp_gr)
type(exp_gr)
```

```
33.25
```

Out[75]:

```
float
```

In [86]:

```
site= "https://ycharts.com/companies/TSLA/pe_ratio"

hdr = {'User-Agent':'Mozilla/5.0'}

req = urllib.request.Request(site,headers=hdr)

page = urllib.request.urlopen(req)
soup = BeautifulSoup(page, 'lxml')


#print(soup.get_text())
str1 = soup.get_text().replace('\n',' ').replace('\r','')
#print(str1)
#print(str1.find('Average'))
fyhap = str1[str1.find('Average') - 120 :str1.find('Average')]
fyhap=fyhap.strip()
print(fyhap)
```

```
548.68
```

In [ ]: