In [58]:
```python
import pandas as pd
import yfinance as yf
import numpy as np
import pandas_datareader.data as web

import requests
import matplotlib.pyplot as plt
```

In [59]:
```python
api_key="https://financialmodelingprep.com/api/v3/financial-statement-symbol-lists?api

company="AAPL"
years=2

income_statement=requests.get(f"https://financialmodelingprep.com/api/v3/income-statem
income_statement=requests.get(f"https://financialmodelingprep.com/api/v3/income-statem

income_statement=income_statement.json()

print(income_statement)
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In [60]:
```python
print(income_statement[0]['revenue'])
print(income_statement[0]['grossProfit'])
print(income_statement[0]['operatingIncome'])
```

```
394328000000
170782000000
119437000000
```

In [61]:
```python
revenues=[income_statement[i]['revenue'] for i in range(len(income_statement))]
#reverse it because the years go from most recent to least if you do [0]...
revenues=list(reversed([income_statement[i]['revenue'] for i in range(len(income_state
profits=list(reversed([income_statement[i]['grossProfit'] for i in range(len(income_st
ebitda=list(reversed([income_statement[i]['ebitda'] for i in range(len(income_statemen
net_income=list(reversed([income_statement[i]['netIncome'] for i in range(len(income_s
```

In [62]:
```python
#convert to array for calculation
revenues_array=np.array(revenues)
profits_array=np.array(profits)
```

```
ebitda_array=np.array(ebitda)
net_income_array=np.array(net_income)
```

In [63]:
```
gross_profit_margin=(profits_array/revenues_array)*100
gross_profit_margin
```
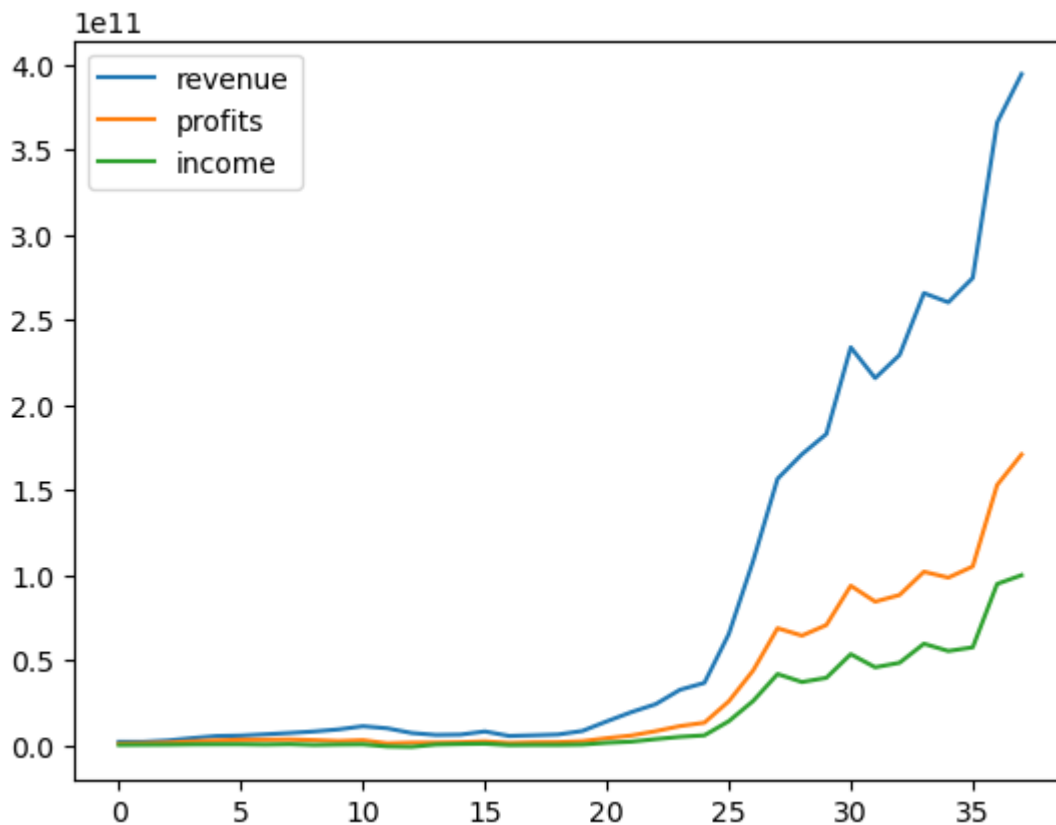
Out[63]:
```
array([43.90866913, 55.83364004, 53.94009996, 53.00879304, 51.36260409,
       56.75913932, 50.70853411, 46.74098638, 36.28306381, 25.50764261,
       25.83619599,  9.84440151, 19.31930518, 24.89479886, 27.64916857,
       27.1326569 , 23.02815588, 27.91710206, 27.51731916, 27.28590409,
       29.02160649, 28.98265597, 33.96650837, 34.31448013, 35.9635438 ,
       39.37753929, 40.47889588, 43.87123981, 37.62448072, 38.58803578,
       40.05990202, 39.07595565, 38.46986049, 38.34371882, 37.81776811,
       38.23324773, 41.77935963, 43.30963056])
```

In [64]:
```
net_profit_margin=(net_income_array/revenues_array)*100
net_profit_margin
```

Out[64]:
```
array([  3.19032477,   8.09716599,   8.17331179,   9.83199882,
         8.59197578,   8.54382556,   4.91060107,   7.48465392,
         1.08562116,   3.37562854,   3.8329416 ,  -8.29858639,
       -14.75780257,   5.20114459,   9.79784806,   9.84592259,
        -0.466157  ,   1.13200975,   1.11164814,   3.33373596,
         9.58294451,  10.29769609,  14.56302591,  14.88346316,
        15.61157183,  21.48409352,  23.94664154,  26.6650906 ,
        21.67046984,  21.61437676,  22.8457737 ,  21.18679831,
        21.09242085,  22.41420207,  21.23809451,  20.91361128,
        25.88179336,  25.30964071])
```

In [65]:
```
plt.plot(revenues,label="revenue")
plt.plot(profits,label='profits')
plt.plot(net_income, label='income')
plt.legend()
```

Out[65]:
```
<matplotlib.legend.Legend at 0x2261ef28a90>
```

import yfinance as yf

Define the stock ticker symbol

symbol = "AAPL"

Retrieve the financial statements using yfinance

try: financials = yf.Ticker(symbol).financials except Exception as e: print("Error: ", e)

Calculate financial ratios

revenue = financials.loc['Total Revenue'].values[-1] net_income = financials.loc['Net Income'].values[-1] eps = financials.loc['Basic EPS'].values[-1] pe_ratio = yf.Ticker(symbol).info['trailingPE']

Print the financial ratios

```
print("Revenue:", revenue) print("Net Income:", net_income) print("EPS:", eps) print("P/E Ratio:",
pe_ratio)
```

Create a pandas DataFrame from the financial statements

```
df = pd.DataFrame(financials)
```

Calculate the revenue growth rate

```
revenue_growth = df.pct_change()["Total Revenue"].mean() * 100
```

Calculate the return on equity (ROE)

```
net_income = df.loc["Net Income"].values shareholders_equity = df.loc["Total Stockholder
Equity"].values ROE = net_income / shareholders_equity
```

Calculate the price-to-earnings (P/E) ratio

```
price = yf.Ticker(symbol).info["regularMarketPrice"] earnings = df.loc["Net Income"].iloc[-1]
shares_outstanding = yf.Ticker(symbol).info["sharesOutstanding"] EPS = earnings /
shares_outstanding PE_ratio = price / EPS
```

Print the results

```
print(f"Revenue growth rate: {revenue_growth:.2f}%") print(f"Return on equity: {ROE[-1]:.2f}")
print(f"P/E ratio: {PE_ratio:.2f}")
```

```
import requests
```

Define the stock ticker symbol and API key

```
symbol = "AAPL" api_key = "YOUR_API_KEY"
```

Retrieve the financial statements using Alpha Vantage

try: url = f"https://www.alphavantage.co/query?function=INCOME_STATEMENT&symbol={symbol}&apikey={api_key}" response = requests.get(url) data = response.json() financials = data['annualReports'] except Exception as e: print("Error: ", e)

Calculate financial ratios

revenue = float(financials[0]['totalRevenue']) net_income = float(financials[0]['netIncome']) eps = net_income / float(financials[0]['weightedAverageShsOut']) pe_ratio = requests.get(f"https://www.alphavantage.co/query?function=OVERVIEW&symbol={symbol}&apikey={api_key}").json()['PERatio']

Print the financial ratios

print("Revenue:", revenue) print("Net Income:", net_income) print("EPS:", eps) print("P/E Ratio:", pe_ratio)

financials = None try: financials = yf.Ticker(symbol).financials except Exception as e: print("Error: ", e)

if financials is not None:

```
    # Calculate financial ratios
    revenue = financials.loc['Total Revenue'].values[-1]
    net_income = financials.loc['Net Income'].values[-1]
    eps = financials.loc['Basic EPS'].values[-1]
    pe_ratio = yf.Ticker(symbol).info['trailingPE']

    # Print the financial ratios
    print("Revenue:", revenue)
    print("Net Income:", net_income)
    print("EPS:", eps)
    print("P/E Ratio:", pe_ratio)
```

else: print("Financial data not available.")

In [ ]:

In [ ]:

In [ ]: