

# **Automated load of Seeking Alpha data to Excel**

**Columns names: (highlighted in yellow are unavailable)**

**1. Valuation Metrics**

- Market Cap: get-valuation, get-metrics (marketcap)
- P/E (Price-to-Earnings) ttm (trailing twelve months): get-valuation, get-metrics (pe\_ratio)
- P/E 5-Year Average
- Price/Cash Flow (TTM): get-valuation, get-metrics (price\_cf\_ratio)
- Price/Sales (TTM): get-valuation
- Price/Book: get-valuation, get-metrics ( pb\_ratio)
- EV/EBITDA (Enterprise Value/Earnings Before Interest, Taxes, Depreciation, and Amortization): get-valuation, get-metrics (ev\_ebitda)
- PEG (Price/Earnings to Growth) Ratio: get-valuation

**2. Growth Metrics**

- EPS Growth (TTM) - get-metrics ( )
- Cash Flow Growth\*
- 2022 EPS (Earnings Per Share)
- 2023 EPS
- % Growth (2022 EPS to 2023 EPS)
- 2022 Revenue: income-statement
- 2023 Revenue: income-statement
- % Growth (2022 Revenue to 2023 Revenue), get-peers (revenueGrowth)

**3. Profit Margin Metrics**

- Gross Margin (TTM) get-metrics ( gross\_margin)
- Operating/Net Income Margin (TTM) get-metrics (net\_margin )

**4. Return Metrics**

- RoE (Return on Equity) (TTM) get-metrics (roe)

**5. Historical P/E Metrics**

- P/E 2018 Average
- P/E 2019 Average
- P/E Blended Average

**6. Additional Metrics**

- EPS REV
- L.Y.S.Q (Last Year's Same Quarter)
- REV-RE (possibly related to Revenue Recognition or Revision)

**7. Comparative Analysis Columns**

- book-to-market ratio
- expected value
- realized value
- book-to-revenue baseline
- book-to-eps baseline

**Columns names matched:**

**1. Valuation Metrics**

- Market Cap: get-valuation, get-metrics (marketcap)
- P/E (Price-to-Earnings) TTM (trailing twelve months)
- Price/Cash Flow (TTM)
- Price/Sales (TTM)
- Price/Book
- EV/EBITDA (Enterprise Value/Earnings Before Interest, Taxes, Depreciation, and Amortization)
- PEG (Price/Earnings to Growth) Ratio

**8. Growth Metrics**

- EPS Growth (TTM)
- Cash Flow Growth
- 2022 EPS (Earnings Per Share)
- 2023 EPS
- % Growth (2022 EPS to 2023 EPS)
- 2022 Revenue:
- 2023 Revenue:
- % Growth (2022 Revenue to 2023 Revenue)

**9. Profit Margin Metrics**

- Gross Margin (TTM)
- Operating/Net Income Margin (TTM)

**10. Return Metrics**

- RoE (Return on Equity) (TTM)

**API call wise details fetched:**

**From get-metrics API Call (Part 1):**

- Market Cap (marketcap)
- P/E Ratio (pe\_ratio)
- Price/Cash Flow Ratio (price\_cf\_ratio)
- Price/Book Ratio (pb\_ratio)
- Enterprise Value/Earnings Before Interest, Taxes, Depreciation, and Amortization (EV/EBITDA)
- Gross Margin (gross\_margin)
- Net Margin (net\_margin)
- Return on Equity (ROE) (roe)

**From get-valuation API Call (Part 2):**

- Price/Sales (TTM) (price\_sales\_ttm)

- PEG (Price/Earnings to Growth) Ratio (peg\_ratio)

**From get-financials API Call (Part 3 – Cash Flow Growth):**

- Cash Flow From Operating Activities (Cash Flow Growth is calculated based on this data)
- 2022 EPS (Earnings Per Share) (Fetched)
- 2023 EPS (Earnings Per Share) (Fetched)
- EPS (TTM) (Earnings Per Share Trailing Twelve Months) (Fetched)
- 2022 Revenue (Fetched)
- 2023 Revenue (Fetched)
- % Growth (EPS) (Calculated)
- % Growth (Revenue) (Calculated)

## API Calls, Responses and Configuration

### 1. Get-metrics:

#### 1.1. Call:

```
import http.client

conn = http.client.HTTPSConnection("seeking-alpha.p.rapidapi.com")

headers = {
    'X-RapidAPI-Key': "29d30c6a20msh1a82a70a916eabdp1fc175jsn7a507f6a99fb",
    'X-RapidAPI-Host': "seeking-alpha.p.rapidapi.com"
}

conn.request("GET", "/symbols/get-metrics?symbols=ipoof%2Ctga%2Cesea%2Cbgfv%2Cgrin%2Cbbw&fields=quant_rating%2Cauthors_rating_pro%2Csell_side_rating%2Cmarketcap%2Cdividend_yield%2Cvalue_category%2Cgrowth_category%2Cprofitability_category%2Cmomentum_category%2Ceps_revisions_category", headers=headers)

res = conn.getresponse()
data = res.read()

print(data.decode("utf-8"))
```

#### 1.2. Response

```
/Users/surya/PycharmProjects/StockSraper/venv/bin/python
/Users/surya/PycharmProjects/StockSraper/main.py
{"data":[{"id":"3905,7915"],"type":"metric","attributes":{"value":320099424.0,"meaningful":true},"relationships":{"metric_type":{"data":{"id":"7915","type":"metric_type"},"ticker":{"data":{"id":"3905","type":"ticker"}}}},{"id":"3905,230572"],"type":"metric","attributes":{"value":5.0,"meaningful":true},"relationships":{"metric_type":{"data":{"id":"230572","type":"metric_type"},"ticker":{"data":{"id":"3905","type":"ticker"}}}},{"id":"3905,262081"],"type":"metric","attributes":{"value":2.738129496402878,"meaningful":true},"relationships":{"metric_type":{"data":{"id":"262081","type":"metric_type"},"ticker":{"data":{"id":"3905","type":"ticker"}}}},{"id":"7941,30"],"type":"metric","attributes":{"value":13.44086,"meaningful":true},"relationships":{"metric_type":{"data":{"id":"30","type":"metric_type"},"ticker":{"data":{"id":"7941","type":"ticker"}}}},{"id":"7941,7915"],"type":"metric","attributes":{"value":141939872.0,"meaningful":true},"relationships":{"
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```
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Holdings
Ltd.", "isBdc":false, "visible":true, "searchable":true, "private":false, "pending":false, "isDefunct":fal
se, "followersCount":6357, "fundTypeId":0, "articleRtaCount":1, "newsRtaCount":2, "divYieldTyp
e":"historic", "primaryEpsConsensusMeanType":"normalized", "mergedOn":null, "isReit":false}, "
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ck/grin/logo?asImage=true", "companyLogoUrlLight": "https://static.seekingalpha.com/cdn/s3/co
mpany_logos/mark_vector_light/GRIN", "companyLogoUrlDark": "https://static.seekingalpha.co
m/cdn/s3/company_logos/mark_vector_dark/GRIN"} } }
```

Process finished with exit code 0

## 1.3. Configuration

### 2. Get-valuation.

#### 2.1. Call

```
import http.client

conn = http.client.HTTPSConnection("seeking-alpha.p.rapidapi.com")

headers = {
    'X-RapidAPI-Key': '29d30c6a20msh1a82a70a916eabdp1fc175jsn7a507f6a99fb',
    'X-RapidAPI-Host': 'seeking-alpha.p.rapidapi.com'
}

conn.request("GET", "/symbols/get-valuation?symbols=aapl%2Ctsla", headers=headers)

res = conn.getresponse()
data = res.read()

print(data.decode("utf-8"))
```

#### 2.2. Response

```
/Users/surya/PycharmProjects/StockSraper/venv/bin/python
/Users/surya/PycharmProjects/StockSraper/main.py
{"data": [{"id": "AAPL", "type": "valuation", "attributes": {"marketCap": 3027809759360.0, "totalEn
terprise": 2989640759360.0, "lastClosePriceEarningsRatio": 31.7585644371941, "priceCf": 27.390
3346151271, "priceSales": 7.99688734263779, "priceBook": 48.7124894689393, "priceTangb": 48.
4422537558385, "evEbitda": 23.761252260054, "evSales": 7.80004633460741, "evFcf": 36.174784
4633731, "cShare": 3.95782045518375, "peRatioFwd": 29.5125550311589, "pegRatio": 97.0319720
048705, "pegNongaapFy1": 3.24930924722601, "peGaapFy1": 29.7203224230581, "peNongaapFy
1": 29.6824399734096, "peNongaap": 31.8104575163399, "evEbitdaFy1": 22.7019708966885, "evS
alesFy1": 7.52720825684757}}, {"id": "TSLA", "type": "valuation", "attributes": {"marketCap": 809
035494009.0, "totalEnterprise": 792174494009.0, "lastClosePriceEarningsRatio": 82.09942256201
```



```
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5161,"priceTangb":15.140493818471,"evEbitda":52.2818435855993,"evSales":8.258355510706
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NongaapFy1":79.9617942861093,"peNongaap":70.4986149584488,"evEbitdaFy1":47.97247841
41801,"evSalesFy1":8.155553422436411}}]]}
```

Process finished with exit code 0

## **2.3. Configuration**

```
import http.client
import json
import pandas as pd

# Initialize HTTP connection for valuation
conn = http.client.HTTPSConnection("seeking-alpha.p.rapidapi.com")
headers = {
    'X-RapidAPI-Key': "29d30c6a20msh1a82a70a916eabdp1fc175jsn7a507f6a99fb",
    'X-RapidAPI-Host': "seeking-alpha.p.rapidapi.com"
}

# Making the API request
conn.request("GET", "/symbols/get-valuation?symbols=aapl%2Ctsla", headers=headers)
res = conn.getresponse()
data = res.read()
conn.close()

# Parsing the JSON response
valuation_data = json.loads(data.decode("utf-8"))

# Check if 'data' key is in valuation_data and process the data
if 'data' in valuation_data:
    # Creating a new DataFrame
    df_valuation = pd.DataFrame()

    # Iterate through each item and extract values
    for item in valuation_data['data']:
        stock_id = item['id']
        attributes = item['attributes']

        # Extracting values
        price_sales = attributes.get('priceSales')
        peg_ratio = attributes.get('pegRatio')

    # Inserting into the DataFrame
```

```

df_valuation.at[stock_id, 'price_sales_ttm'] = price_sales
df_valuation.at[stock_id, 'peg_ratio'] = peg_ratio
else:
    print("Key 'data' not found in valuation_data")

```

```

# Display the DataFrame
print(df_valuation)

```

**3. get-financials: cash-flow-statement**

**3.1. Call**

```
import http.client
```

```
conn = http.client.HTTPSConnection("seeking-alpha.p.rapidapi.com")
```

```

headers = {
    'X-RapidAPI-Key': "29d30c6a20msh1a82a70a916eabdp1fc175jsn7a507f6a99fb",
    'X-RapidAPI-Host': "seeking-alpha.p.rapidapi.com"
}

```

```

conn.request("GET", "/symbols/get-
financials?symbol=aapl&target_currency=USD&period_type=annual&statement_type=cash-
flow-statement", headers=headers)

```

```

res = conn.getresponse()
data = res.read()

```

```
print(data.decode("utf-8"))
```

**3.2. Response:**

```
/Users/surya/PycharmProjects/StockSraper/venv/bin/python
```

```
/Users/surya/PycharmProjects/StockSraper/main.py
```

```

[{"title": "Net
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```

me":"Sep  
2023","value":"96,995.0","raw\_value":96995000000.0,"format":{},"yoy\_value":"(2.81%)",{"name":"TTM","value":"96,995.0","raw\_value":96995000000.0,"format":{},"yoy\_value":"2.36%"}]]],{"title":"Cash Flow From Operating Activities","section\_group":"","type":"section","rows":[{"name":"depreciation\_amortization1","value":"Depreciation & Amortization","bold":false,"item\_id":2171,"type":"row","force\_display":false,"cells":[{"name":"Sep 2014","value":false,"class":"archive-lock"},{"name":"Sep 2015","value":false,"class":"archive-lock"},{"name":"Sep 2016","value":false,"class":"archive-lock"},{"name":"Sep 2017","value":false,"class":"archive-lock"},{"name":"Sep 2018","value":false,"class":"archive-lock"},{"name":"Sep 2019","value":"12,547.0","raw\_value":12547000000.0,"format":{},"yoy\_value":"-"},{"name":"Sep 2020","value":"11,056.0","raw\_value":11056000000.0,"format":{},"yoy\_value":"(11.88%)",{"name":"Sep 2021","value":"11,284.0","raw\_value":11284000000.0,"format":{},"yoy\_value":"2.06%",{"name":"Sep 2022","value":"11,104.0","raw\_value":11104000000.0,"format":{},"yoy\_value":"(1.60%)",{"name":"Sep 2023","value":"11,519.0","raw\_value":11519000000.0,"format":{},"yoy\_value":"3.74%",{"name":"TTM","value":"11,519.0","raw\_value":11519000000.0,"format":{},"yoy\_value":"(1.81%)"}]],{"name":"amortization\_of\_goodwill\_and\_intangible\_assets3","value":"Amort. of Goodwill and Intangibles","bold":false,"item\_id":2182,"type":"row","force\_display":false,"cells":[{"name":"Sep 2014","value":false,"class":"archive-lock"},{"name":"Sep 2015","value":false,"class":"archive-lock"},{"name":"Sep 2016","value":false,"class":"archive-lock"},{"name":"Sep 2017","value":false,"class":"archive-lock"},{"name":"Sep 2018","value":false,"class":"archive-lock"},{"name":"Sep 2019","value":"-"},{"name":"Sep 2020","value":"-"},{"name":"Sep 2021","value":"-"},{"name":"Sep 2022","value":"-"},{"name":"Sep 2023","value":"-"},{"name":"TTM","value":"-"}]]],{"name":"depreciation\_amort\_total\_2","value":"Depreciation & Amortization, Total","bold":true,"item\_id":2160,"type":"row","force\_display":false,"cells":[{"name":"Sep 2014","value":false,"class":"archive-lock"},{"name":"Sep 2015","value":false,"class":"archive-lock"},{"name":"Sep 2016","value":false,"class":"archive-lock"},{"name":"Sep 2017","value":false,"class":"archive-lock"},{"name":"Sep 2018","value":false,"class":"archive-lock"},{"name":"Sep 2019","value":"12,547.0","raw\_value":12547000000.0,"format":{},"yoy\_value":"-"},{"name":"Sep 2020","value":"11,056.0","raw\_value":11056000000.0,"format":{},"yoy\_value":"(11.88%)",{"name":"Sep 2021","value":"11,284.0","raw\_value":11284000000.0,"format":{},"yoy\_value":"2.06%",{"name":"Sep 2022","value":"11,104.0","raw\_value":11104000000.0,"format":{},"yoy\_value":"(1.60%)",{"name":"Sep 2023","value":"11,519.0","raw\_value":11519000000.0,"format":{},"yoy\_value":"3.74%",{"name":"TTM","value":"11,519.0","raw\_value":11519000000.0,"format":{},"yoy\_value":"(1.81%)"}]]]

```

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lock"}, {"name": "Sep 2017", "value": false, "class": "archive-lock"}, {"name": "Sep
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2017", "value": false, "class": "archive-lock"}, {"name": "Sep 2018", "value": false, "class": "archive-
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```

Process finished with exit code 0

### 3.3 Configuration:

```

import http.client
import json

```

```

import pandas as pd

# Initialize HTTP connection for valuation
conn = http.client.HTTPSConnection("seeking-alpha.p.rapidapi.com")
headers = {
    'X-RapidAPI-Key': "29d30c6a20msh1a82a70a916eabdp1fc175jsn7a507f6a99fb",
    'X-RapidAPI-Host': "seeking-alpha.p.rapidapi.com"
}

# Define the stock symbol
stock_symbol = "ORCL"

# Making the API request
conn.request("GET", f"/symbols/get-valuation?symbols={stock_symbol}", headers=headers)
res = conn.getresponse()
data = res.read()
conn.close()

# Parsing the JSON response
valuation_data = json.loads(data.decode("utf-8"))

# Check if 'data' key is in valuation_data and process the data
if 'data' in valuation_data:
    # Creating a new DataFrame
    df_valuation = pd.DataFrame()

    # Iterate through each item and extract the "Cash Flow Growth" value
    for item in valuation_data['data']:
        attributes = item['attributes']
        cash_flow_growth = attributes.get('cashFlowGrowth')

        # Inserting into the DataFrame
        df_valuation.at[stock_symbol, 'Cash Flow Growth'] = cash_flow_growth
    else:
        print(f"Key 'data' not found for symbol {stock_symbol} in valuation_data")

# Display the DataFrame
print(df_valuation)

```

## **4. get-financials: income-statement**

### **4.1. Call**

```

import http.client

conn = http.client.HTTPSConnection("seeking-alpha.p.rapidapi.com")

```

```

headers = {
    'X-RapidAPI-Key': "29d30c6a20msh1a82a70a916eabdp1fc175jsn7a507f6a99fb",
    'X-RapidAPI-Host': "seeking-alpha.p.rapidapi.com"
}

conn.request("GET", "/symbols/get-
financials?symbol=aapl&target_currency=USD&period_type=annual&statement_type=income-
statement", headers=headers)

res = conn.getresponse()
data = res.read()

print(data.decode("utf-8"))

```

#### 4.2 Response:

```

/Users/surya/PycharmProjects/tes/venv/bin/python /Users/surya/PycharmProjects/tes/main.py
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```

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```

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"}]]]]]

```

Process finished with exit code 0

### 4.3 Config

```
import http.client
```

```
import json
```

```
import pandas as pd
```

```
# List of stock symbols to fetch data for
```

```
stock_symbols = ["AAPL", "MSFT", "GOOGL"] # Add more symbols as needed
```

```
output_file = "financial_data.xlsx" # Specify the output Excel file name
```

```
# Initialize an empty list to store data for each stock
```

```
data_list = []
```

```
# Establishing the connection
```

```
conn = http.client.HTTPSConnection("seeking-alpha.p.rapidapi.com")
```

```
headers = {
```

```
    'X-RapidAPI-Key': "29d30c6a20msh1a82a70a916eabdp1fc175jsn7a507f6a99fb", # Your API key
```

```
    'X-RapidAPI-Host': "seeking-alpha.p.rapidapi.com"
```

```
}
```

```
# Iterate through the stock symbols
```

```
for symbol in stock_symbols:
```

```
    # Making the API request for each symbol
```

```
    conn.request("GET", f"/symbols/get-financials?symbol={symbol}&target_currency=USD&period_type=annual&statement_type=income-statement", headers=headers)
```

```
    res = conn.getresponse()
```

```
    data = res.read()
```

```
# Parsing the response
```

```
response = json.loads(data.decode("utf-8"))
```

```
# Extracting necessary data for each symbol
```

```
eps_2022 = None
```

```

eps_2023 = None
eps_ttm = None
revenue_2022 = None
revenue_2023 = None

for section in response:
    for row in section['rows']:
        if row['name'] == 'diluted_eps':
            eps_2022 = row['cells'][8]['raw_value'] # Assuming 8th index is for Sep 2022
            eps_2023 = row['cells'][9]['raw_value'] # Assuming 9th index is for Sep 2023
            eps_ttm = row['cells'][10]['raw_value'] # Assuming TTM is the last cell
        elif row['name'] == 'total_revenue':
            revenue_2022 = row['cells'][8]['raw_value']
            revenue_2023 = row['cells'][9]['raw_value']

# Calculating percentages
eps_growth = ((eps_2023 - eps_2022) / eps_2022) * 100 if eps_2022 and eps_2023 else None
revenue_growth = ((revenue_2023 - revenue_2022) / revenue_2022) * 100 if revenue_2022
and revenue_2023 else None

# Creating a dictionary for each stock's data
stock_data = {
    'Symbol': symbol,
    '2022 EPS': eps_2022,
    '2023 EPS': eps_2023,
    'EPS (TTM)': eps_ttm,
    '2022 Revenue': revenue_2022,
    '2023 Revenue': revenue_2023,
    '% Growth (EPS)': eps_growth,
    '% Growth (Revenue)': revenue_growth
}

data_list.append(stock_data)

# Creating a DataFrame from the list of dictionaries
df = pd.DataFrame(data_list)

# Save the DataFrame to an Excel file
df.to_excel(output_file, index=False)

print(f'Financial data saved to {output_file}')

```



### Integrated Code that combines all the API calls:

```
import http.client
import json
import pandas as pd

# Common parameters
api_key =
"29d30c6a20msh1a82a70a916eabdp1fc175jsn7a507f6a99fb"
api_host = "seeking-alpha.p.rapidapi.com"

# Common HTTP connection initialization
def initialize_connection():
    conn = http.client.HTTPSConnection(api_host)
    headers = {
        'X-RapidAPI-Key': api_key,
        'X-RapidAPI-Host': api_host
    }
    return conn, headers

# Common function to make API requests and parse JSON
response
def make_api_request(endpoint):
    conn, headers = initialize_connection()
    conn.request("GET", endpoint, headers=headers)
    res = conn.getresponse()
    data = res.read()
    conn.close()
    return json.loads(data.decode("utf-8"))

# Function to calculate Cash Flow Growth
def calculate_cash_flow_growth(symbol):
    endpoint = f"/symbols/get-financials?symbol={symbol}&target_currency=USD&period_type=annual&statement_type=cash-flow-statement"
    cash_flow_data = make_api_request(endpoint)

    for section in cash_flow_data:
        if section["title"] == "Cash Flow From Operating Activities":
```

```

        operating_activities =
section["rows"][0]["cells"]
        year1 =
operating_activities[6]["raw_value"]
        year2 =
operating_activities[5]["raw_value"]
        cash_flow_growth = ((year2 - year1) /
year1) * 100
        return cash_flow_growth
    return None

# Function to calculate EPS and Revenue Growth
def calculate_eps_revenue_growth(symbol):
    endpoint = f"/symbols/get-
financials?symbol={symbol}&target_currency=USD&period_t
ype=annual&statement_type=income-statement"
    response_data = make_api_request(endpoint)

    # Check if the response data is a list and contains
data
    if isinstance(response_data, list) and
response_data:
        # Extracting necessary data for each symbol
        eps_2022 = None
        eps_2023 = None
        eps_ttm = None
        revenue_2022 = None
        revenue_2023 = None

        for section in response_data:
            for row in section['rows']:
                if row['name'] == 'diluted_eps':
                    eps_2022 =
row['cells'][8]['raw_value'] # Assuming 8th index is
for Sep 2022
                    eps_2023 =
row['cells'][9]['raw_value'] # Assuming 9th index is
for Sep 2023

```

```

        eps_ttm =
row['cells'][10]['raw_value'] # Assuming TTM is the
last cell

        elif row['name'] == 'total_revenue':
            revenue_2022 =
row['cells'][8]['raw_value']
            revenue_2023 =
row['cells'][9]['raw_value']

# Calculating percentages
eps_growth = ((eps_2023 - eps_2022) / eps_2022)
* 100 if eps_2022 and eps_2023 else None
revenue_growth = ((revenue_2023 - revenue_2022)
/ revenue_2022) * 100 if revenue_2022 and revenue_2023
else None

# Creating a dictionary for each stock's data
stock_data = {
    'Symbol': symbol,
    '2022 EPS': eps_2022,
    '2023 EPS': eps_2023,
    'EPS (TTM)': eps_ttm,
    '2022 Revenue': revenue_2022,
    '2023 Revenue': revenue_2023,
    '% Growth (EPS)': eps_growth,
    '% Growth (Revenue)': revenue_growth
}

return stock_data
else:
    print(f"Error: No data found for {symbol}")
    return None

# Initialize the master list of stock symbols
master_stock_symbols = ["orcl", "googl", "tsla"] # Add
your stock symbols here

# API calls for stock metrics
fields = ['marketcap', 'pe_ratio', 'price_cf_ratio',
'pb_ratio', 'ev_ebitda',

```

```

        'revenueGrowth', 'gross_margin',
        'net_margin', 'roe']
fields_url = "%2C".join(fields)

data_list = []

# Loop through each stock symbol in
master_stock_symbols
for symbol in master_stock_symbols:
    endpoint = f"/symbols/get-
metrics?symbols={symbol}&fields={fields_url}"
    parsed_data = make_api_request(endpoint)

    metric_types = {metric['id']:
metric['attributes']['field'] for metric in
parsed_data['included'] if metric['type'] ==
'metric_type'}

    for item in parsed_data['data']:
        stock_id =
item['relationships']['ticker']['data']['id']
        stock_slug = next(ticker['attributes']['slug']
for ticker in parsed_data['included'] if ticker['type']
== 'ticker' and ticker['id'] == stock_id)
        metric_id =
item['relationships']['metric_type']['data']['id']
        metric_field = metric_types[metric_id]
        value = item['attributes']['value']
        data_list.append({'Stock': stock_slug,
'Metric': metric_field, 'Value': value})

# Create DataFrames from the collected data
metrics_df = pd.DataFrame(data_list)

# Pivot the DataFrame to have one row per symbol and
columns for metrics
pivot_df = metrics_df.pivot(index='Stock',
columns='Metric', values='Value')

# Retrieve valuation data

```

```

conn = http.client.HTTPSConnection("seeking-
alpha.p.rapidapi.com")
headers = {
    'X-RapidAPI-Key': api_key,
    'X-RapidAPI-Host': api_host
}

# Making the API request for valuation data
symbols_for_valuation =
"%2C".join(master_stock_symbols)
conn.request("GET", f"/symbols/get-
valuation?symbols={symbols_for_valuation}",
headers=headers)
res = conn.getresponse()
data = res.read()
conn.close()

# Parsing the JSON response for valuation data
valuation_data = json.loads(data.decode("utf-8"))

# Check if 'data' key is in valuation_data and process
the data
if 'data' in valuation_data:
    # Create a list to store data
    valuation_data_list = []

    # Iterate through each item and extract values
    for item in valuation_data['data']:
        stock_id = item['id']
        attributes = item['attributes']

        # Extracting values
        price_sales = attributes.get('priceSales')
        peg_ratio = attributes.get('pegRatio')

        # Append data to the list
        valuation_data_list.append({'Stock': stock_id,
'Price/Sales (TTM)': price_sales, 'PEG (Price/Earnings
to Growth) Ratio': peg_ratio})
    else:

```

```

    print("Key 'data' not found in valuation_data")

# Create a DataFrame from the list of valuation
dictionaries
valuation_df = pd.DataFrame(valuation_data_list)

# Convert the stock names to lowercase in valuation_df
valuation_df['Stock'] =
valuation_df['Stock'].str.lower()

# Convert the stock names to lowercase in pivot_df
pivot_df.index = pivot_df.index.str.lower()

# Merge valuation_df with pivot_df using a left join on
the "Stock" column
final_df = pivot_df.merge(valuation_df, on='Stock',
how='left')

# Create a dictionary to store cash flow growth for
each stock symbol
cf_growth_dict = {}

# Calculate and store Cash Flow Growth for each stock
symbol
for symbol in master_stock_symbols:
    cash_flow_growth =
calculate_cash_flow_growth(symbol)
    if cash_flow_growth is not None:
        cf_growth_dict[symbol.lower()] =
cash_flow_growth
    else:
        print(f"Cash Flow From Operating Activities
data not found for {symbol.upper()}.")

# Create a DataFrame from the cf_growth_dict
df_cf_growth =
pd.DataFrame(list(cf_growth_dict.items()),
columns=['Stock', 'Cash Flow Growth'])
df_cf_growth.set_index('Stock', inplace=True) # Set
'Stock' as the index

```

```
# Merge df_cf_growth with final_df using a left join on
the "Stock" column
final_df = final_df.merge(df_cf_growth, on='Stock',
how='left')

# Create an empty list to store data for EPS and
Revenue Growth
eps_revenue_growth_data = []

# Calculate EPS and Revenue Growth for each stock
symbol
for symbol in master_stock_symbols:
    stock_data = calculate_eps_revenue_growth(symbol)
    if stock_data is not None:
        eps_revenue_growth_data.append(stock_data)
    else:
        print(f"No data found for {symbol}.")

# Create a DataFrame from the collected EPS and Revenue
Growth data
eps_df = pd.DataFrame(eps_revenue_growth_data)

# Convert the stock names to lowercase in eps_df
eps_df['Symbol'] = eps_df['Symbol'].str.lower()

# Rename columns in eps_df to avoid conflicts during
merging
eps_df.columns = [f"{col}_eps" if col != 'Symbol' else
'Stock' for col in eps_df.columns]

# Merge eps_df with final_df using a left join on the
"Stock" column
final_df = final_df.merge(eps_df, on='Stock',
how='left')

# Save the final DataFrame to an Excel file
excel_output_file = 'final_stock_metrics.xlsx'
final_df.to_excel(excel_output_file, index=False)
```

```
print(f'Data saved to {excel_output_file}')
```