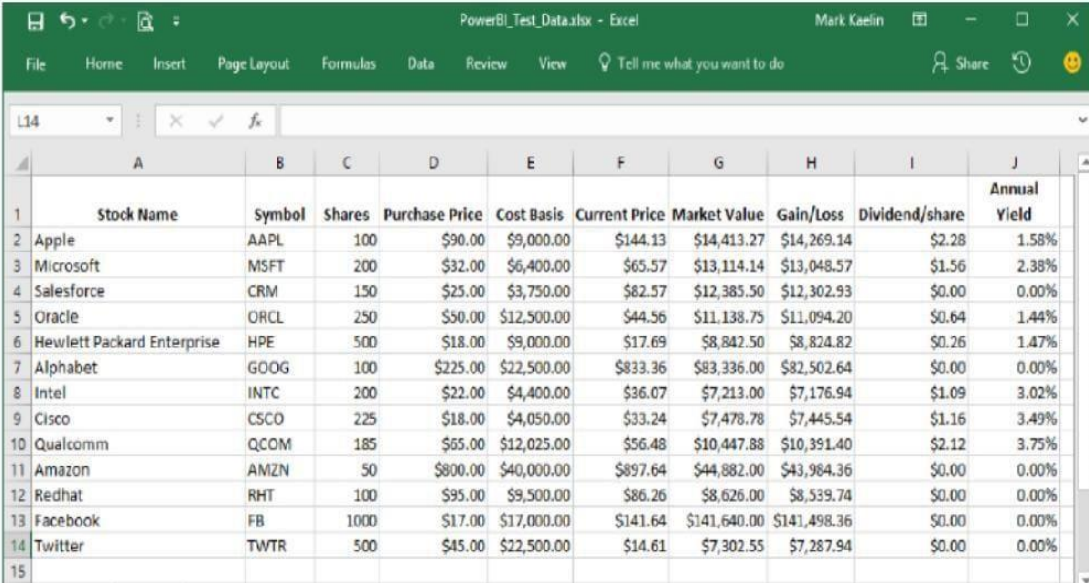# UAS Praktikum Komputer Grafis

Muhammad Rizal

G.211.22.0107

Soal!!!

1. Buatlah data berikut ke dalam format file csv dengan nama file stock.csv
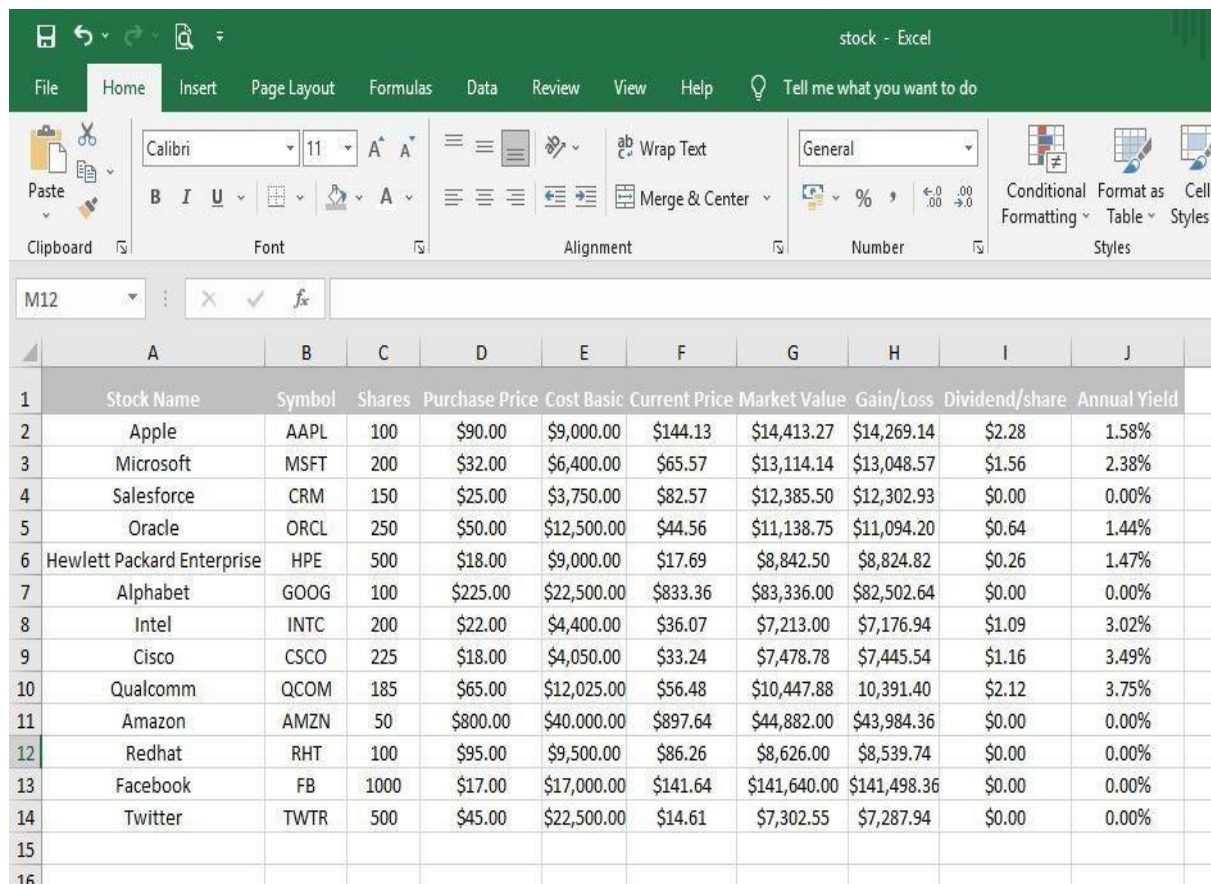
Stock Name	Symbol	Shares	Purchase Price	Cost Basis	Current Price	Market Value	Gain/Loss	Dividend/share	Annual Yield
Apple	AAPL	100	$90.00	$9,000.00	$144.13	$14,413.27	$14,269.14	$2.28	1.58%
Microsoft	MSFT	200	$32.00	$6,400.00	$65.57	$13,114.14	$13,048.57	$1.56	2.38%
Salesforce	CRM	150	$25.00	$3,750.00	$82.57	$12,385.50	$12,302.93	$0.00	0.00%
Oracle	ORCL	250	$50.00	$12,500.00	$44.56	$11,138.75	$11,094.20	$0.64	1.44%
Hewlett Packard Enterprise	HPE	500	$18.00	$9,000.00	$17.69	$8,842.50	$8,824.82	$0.26	1.47%
Alphabet	GOOG	100	$225.00	$22,500.00	$833.36	$83,336.00	$82,502.64	$0.00	0.00%
Intel	INTC	200	$22.00	$4,400.00	$36.07	$7,213.00	$7,176.94	$1.09	3.02%
Cisco	CSCO	225	$18.00	$4,050.00	$33.24	$7,478.78	$7,445.54	$1.16	3.49%
Qualcomm	QCOM	185	$65.00	$12,025.00	$56.48	$10,447.88	$10,391.40	$2.12	3.75%
Amazon	AMZN	50	$800.00	$40,000.00	$897.64	$44,882.00	$43,984.36	$0.00	0.00%
Redhat	RHT	100	$95.00	$9,500.00	$86.26	$8,626.00	$8,539.74	$0.00	0.00%
Facebook	FB	1000	$17.00	$17,000.00	$141.64	$141,640.00	$141,498.36	$0.00	0.00%
Twitter	TWTR	500	$45.00	$22,500.00	$14.61	$7,302.55	$7,287.94	$0.00	0.00%

2. Buatlah koding python dengan matplotlib atau seaborn, visualisasi data untuk menampilkan :

a. Distribusi data pada setiap atribut Purchase Price, Current Price dan Gain/Loss dengan grafik histogram

b. Atribut Stock Name dan Symbol yang memiliki Dividen / Share 5 tertinggi

c. Atribut Stock Name dan Symbol yang memiliki Market Value 5 tertinggi

d. Atribut Stock Name dan Symbol yang memiliki Annual Yield 7 tertinggi

3. Simpan di github pada fiolder UAS dan share URL ke elearning
Tidak boleh plagiasi dari teman

Jawaban!!!

1).

	A	B	C	D	E	F	G	H	I	J
1	Stock Name	Symbol	Shares	Purchase Price	Cost Basic	Current Price	Market Value	Gain/Loss	Dividend/share	Annual Yield
2	Apple	AAPL	100	$90.00	$9,000.00	$144.13	$14,413.27	$14,269.14	$2.28	1.58%
3	Microsoft	MSFT	200	$32.00	$6,400.00	$65.57	$13,114.14	$13,048.57	$1.56	2.38%
4	Salesforce	CRM	150	$25.00	$3,750.00	$82.57	$12,385.50	$12,302.93	$0.00	0.00%
5	Oracle	ORCL	250	$50.00	$12,500.00	$44.56	$11,138.75	$11,094.20	$0.64	1.44%
6	Hewlett Packard Enterprise	HPE	500	$18.00	$9,000.00	$17.69	$8,842.50	$8,824.82	$0.26	1.47%
7	Alphabet	GOOG	100	$225.00	$22,500.00	$833.36	$83,336.00	$82,502.64	$0.00	0.00%
8	Intel	INTC	200	$22.00	$4,400.00	$36.07	$7,213.00	$7,176.94	$1.09	3.02%
9	Cisco	CSCO	225	$18.00	$4,050.00	$33.24	$7,478.78	$7,445.54	$1.16	3.49%
10	Qualcomm	QCOM	185	$65.00	$12,025.00	$56.48	$10,447.88	10,391.40	$2.12	3.75%
11	Amazon	AMZN	50	$800.00	$40.000.00	$897.64	$44,882.00	$43,984.36	$0.00	0.00%
12	Redhat	RHT	100	$95.00	$9,500.00	$86.26	$8,626.00	$8,539.74	$0.00	0.00%
13	Facebook	FB	1000	$17.00	$17,000.00	$141.64	$141,640.00	$141,498.36	$0.00	0.00%
14	Twitter	TWTR	500	$45.00	$22,500.00	$14.61	$7,302.55	$7,287.94	$0.00	0.00%
15										
16										

Input :

```
import matplotlib.pyplot as plt import pandas as pd
import seaborn as sns from google.colab import
files
uploaded = files.upload()
```

Output :

• **stock.csv**(text/csv) - 1197 bytes, last modified: 6/6/2023 - 100% done
```
Saving stock.csv to stock.csv
```

Input :

```
#SOAL 1 tampil_data =
pd.read_csv('stock.csv')
print(tampil_data)
```

Output :

	Stock Name	Symbol	Shares	Purchase Price	Cost Basic
0	Apple	AAPL	100	$90.00	$9,000.00
1	Microsoft	MSFT	200	$32.00	$6,400.00
2	Salesforce	CRM	150	$25.00	$3,750.00
3	Oracle	ORCL	250	$50.00	$12,500.00
4	Hewlett Packard Enterprise	HPE	500	$18.00	$9,000.00
5	Alphabet	GOOG	100	$225.00	$22,500.00
6	Intel	INTC	200	$22.00	$4,400.00
7	Cisco	CSCO	225	$18.00	$4,050.00
8	Qualcomm	QCOM	185	$65.00	$12,025.00
9	Amazon	AMZN	50	$800.00	$40.000.00
10	Redhat	RHT	100	$95.00	$9,500.00
11	Facebook	FB	1000	$17.00	$17,000.00
12	Twitter	TWTR	500	$45.00	$22,500.00

|	Current Price	Market Value	Gain/Loss	Dividend/share	Annual Yield
0	$144.13	$14,413.27	$14,269.14	$2.28	1.58%
1	$65.57	$13,114.14	$13,048.57	$1.56	2.38%
2	$82.57	$12,385.50	$12,302.93	$0.00	0.00%
3	$44.56	$11,138.75	$11,094.20	$0.64	1.44%
4	$17.69	$8,842.50	$8,824.82	$0.26	1.47%
5	$833.36	$83,336.00	$82,502.64	$0.00	0.00%
6	$36.07	$7,213.00	$7,176.94	$1.09	3.02%
7	$33.24	$7,478.78	$7,445.54	$1.16	3.49%
8	$56.48	$10,447.88	10,391.40	$2.12	3.75%
9	$897.64	$44,882.00	$43,984.36	$0.00	0.00%
10	$86.26	$8,626.00	$8,539.74	$0.00	0.00%
11	$141.64	$141,640.00	$141,498.36	$0.00	0.00%
12	$14.61	$7,302.55	$7,287.94	$0.00	0.00%

2).

A).

Input :

```
plt.title('Distribusi data pada atribut Purchase Price')
plt.xlabel('Purchase Price') plt.ylabel('Frekuensi')
plt.hist(tampil_data['Purchase Price'], edgecolor='white',
color='orange')
```

Output :

```
(array([2., 1., 1., 2., 1., 1., 1., 1., 1., 2.]),
 array([ 0. ,  1.1,  2.2,  3.3,  4.4,  5.5,  6.6,  7.7,  8.8,  9.9, 11. ]),
 <BarContainer object of 10 artists>)
```
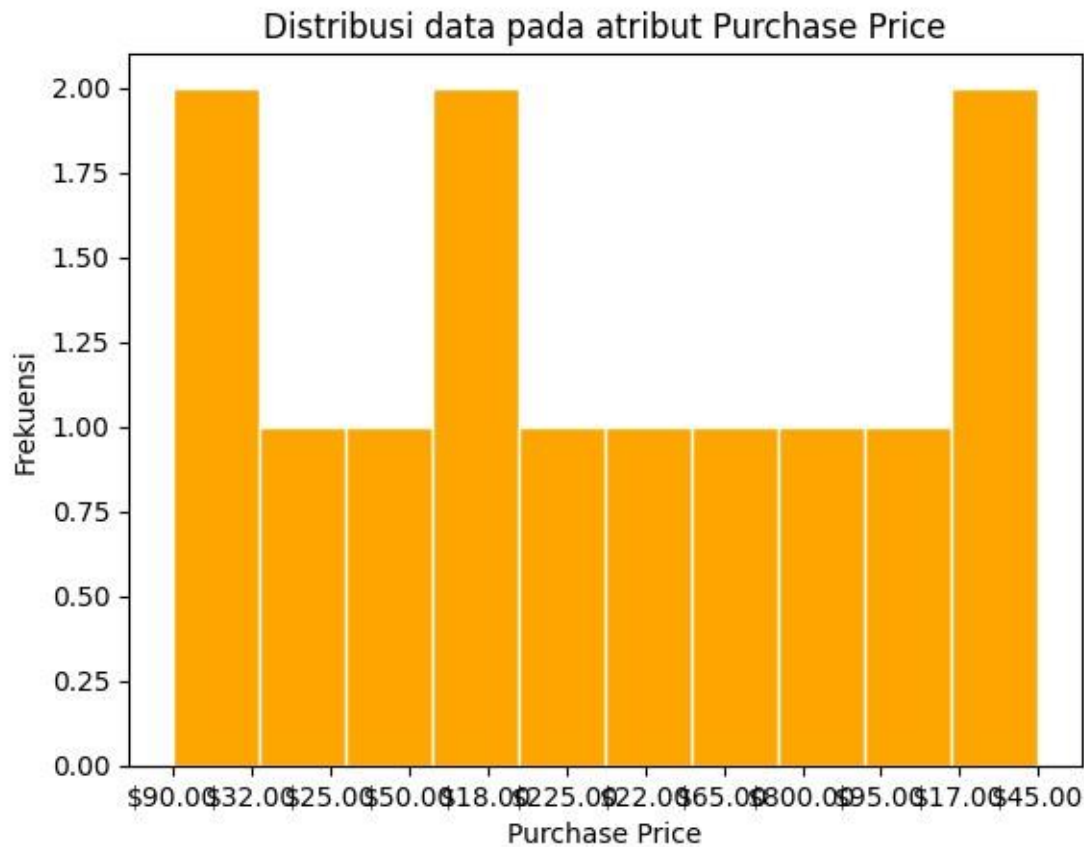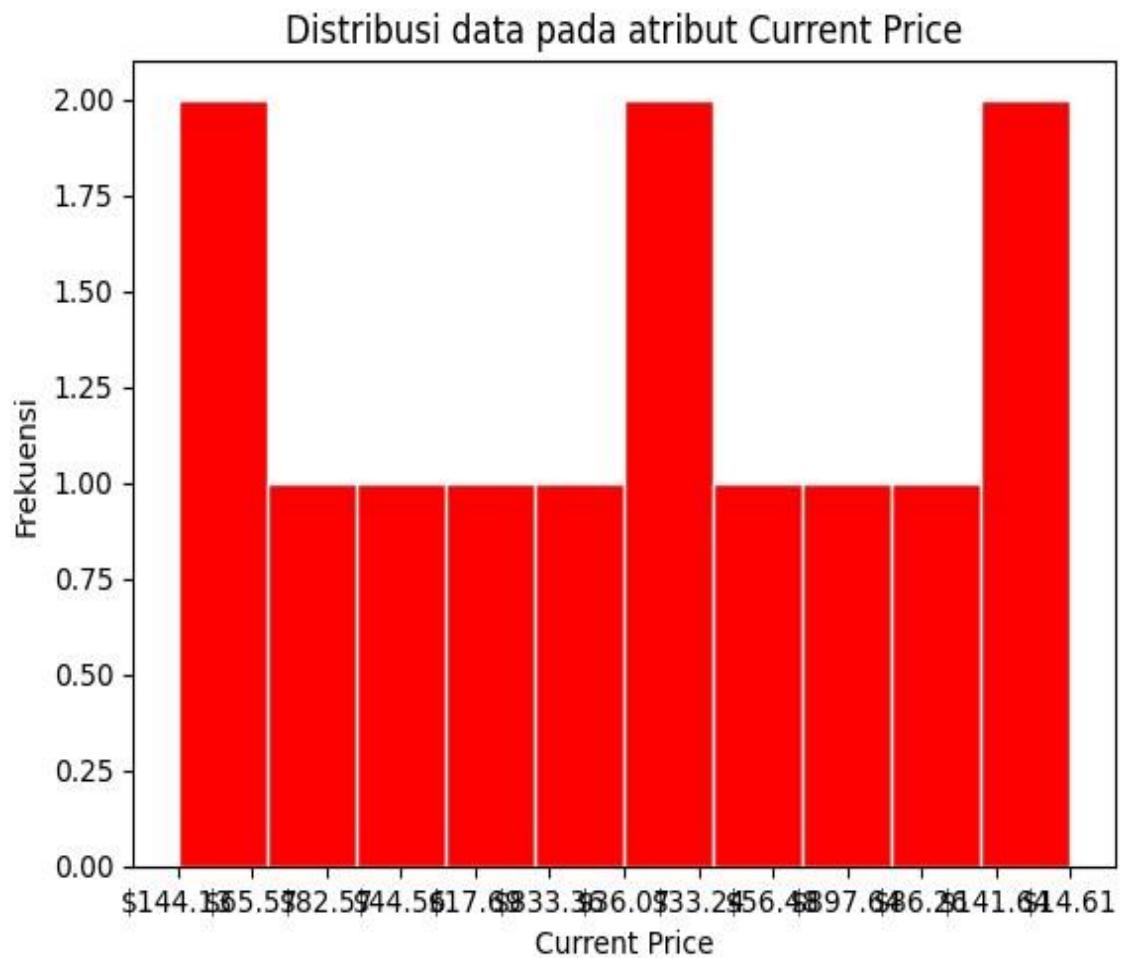

Input :

```
plt.title('Distribusi data pada atribut Current Price')
plt.xlabel('Current Price') plt.ylabel('Frekuensi')
plt.hist(tampil_data['Current Price'], edgecolor='white', color='red')
```
Output :

```
(array([2., 1., 1., 1., 1., 2., 1., 1., 1., 2.]),
 array([ 0. ,  1.2,  2.4,  3.6,  4.8,  6. ,  7.2,  8.4,  9.6, 10.8, 12. ]),
<BarContainer object of 10 artists>)
```
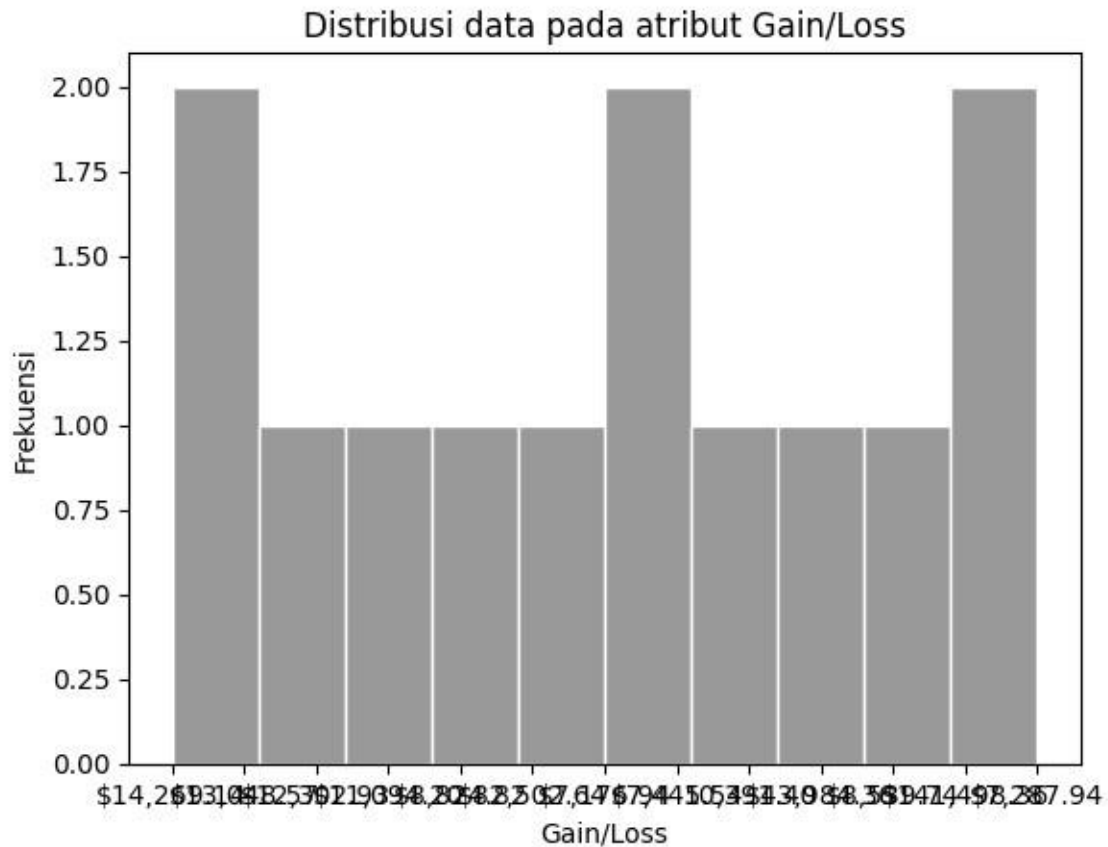
Distribusi data pada atribut Current Price

Input :

```
plt.title('Distribusi data pada atribut Gain/Loss')
plt.xlabel('Gain/Loss')
plt.ylabel('Frekuensi')
plt.hist(tampil_data['Gain/Loss'], color='#999', edgecolor='white')
```

Output :

```
(array([2., 1., 1., 1., 1., 2., 1., 1., 1., 2.]),
 array([ 0. ,  1.2,  2.4,  3.6,  4.8,  6. ,  7.2,  8.4,  9.6, 10.8, 12. ]),
 <BarContainer object of 10 artists>)
```

Distribusi data pada atribut Gain/Loss

B).

Input :

```
atribut1 = tampil_data.sort_values('Dividend/share',
ascending=False).head(5)[['Stock Name', 'Symbol']]
print('Atribut Stock Name dan symbol yang memiliki Dividend/share 5
Tertinggi:')
print(atribut1)
```

Output :

```
Atribut Stock Name dan symbol yang memiliki Dividend/share 5 Tertinggi:
   Stock Name Symbol
0       Apple   AAPL
8    Qualcomm   QCOM
1   Microsoft   MSFT
7       Cisco   CSCO
6       Intel   INTC
```

C).

Input :

```
atribut2 = tampil_data.sort_values('Market Value',
ascending=False).head(5)[['Stock Name', 'Symbol']]
print('Atribut Stock Name dan symbol yang memiliki Market Value 5
Tertinggi:')
print(atribut2)
```

Output :

```
Atribut Stock Name dan symbol yang memiliki Market Value 5 Tertinggi:
                    Stock Name Symbol
5                     Alphabet   GOOG
4    Hewlett Packard Enterprise    HPE
10                      Redhat    RHT
7                       Cisco   CSCO
12                    Twitter   TWTR
```

D).

Input :

```
atribut3 = tampil_data.sort_values('Annual Yield',
ascending=False).head(7)[['Stock Name', 'Symbol']]
print('Atribut Stock Name dan symbol yang memiliki Annual Yield 7
Tertinggi:') print(atribut3)
```

Output :

```
Atribut Stock Name dan symbol yang memiliki Annual Yield 7 Tertinggi:
                    Stock Name Symbol
8                     Qualcomm   QCOM
7                        Cisco   CSCO
6                        Intel   INTC
1                    Microsoft   MSFT
0                        Apple   AAPL
4   Hewlett Packard Enterprise    HPE 3
Oracle    ORCL
```

Note : Kalau Lebih Detail nya Berikut Link google Collab Saya :

https://colab.research.google.com/drive/1INk-YSQSaQkr9Itzom-9Lddy0RbIekDa

Terimakasih!!!!