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```
1 import pandas as pd
  2 import matplotlib.pyplot as plt
  3 import seaborn as sns
  4 # Membaca file CSV
  5 data_stock = pd.read_csv('stock.csv', sep=';')
6 print(data_stock.head(13)) # Menampilkan 13 data yang ada dalam file stock.csv

        Stock Name Symbol
        Shares Purchase Price
        Cost Basis
        \

        Apple
        AAPL
        100
        $9.00
        $9,000.00

        Microsoft
        MSFT
        200
        $32.00
        $6,400.00

        Salesforce
        CRM
        150
        $25.00
        $3,750.00

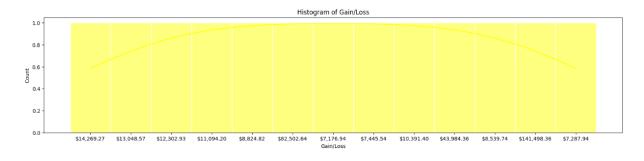
                                                                                       $50.00 $12,500.00
$18.00 $9,000.00
                                                                  250
500
                                       Oracle
                                                     ORCL
     Hewlett Packard Enterprise
4
                                                     HPE
                                                                                     $225.00 $22,500.00
                                                                  100
                                    Alphabet
                                                     GOOG
                                                                                      $22.00 $4,400.00
$18.00 $4,050.00
$65.00 $12,025.00
$800.00 $40,000.00
                                         Intel
                                                      INTO
                                                                     200
                                                                   225
                                                                   185
                                    Qualcomm QCOM
Amazon AMZN
                                                    RHT 100
FB 1000
                                                                                    $95.00 $9,500.00
$17.00 $17,000.00
10
                                       Redhat
                                                                     100
                                    Facebook
11
12
                                      Twitter TWTR
                                                                   500
                                                                                        $45.00 $22,500.00
    Current Price Market Value
                                                      Gain/Loss Dividend/Share Annual Yield
                             Market Value Gain/Loss Dividend/Share A
$14,413.27 $14,269.27 $2.28
$13,114.14 $13,048.57 $1.56
$12,385.50 $12,302.93 $0.00
$11,138.75 $11,094.20 $0.64
              $144.13
                                                                                                           1.58%
                $65.57
                                                                                                             2.38%
                $82.57
                                                                                                             0.00%
               $44.56
                                                                                                            1.44%
                $17.69
                                  $8,842,50
                                                        $8,824.82
                                                                                       $0.26
                                                                                                             1.47%
            $833.36 $83,336.00 $82,502.64
                                                                                       $0.00
                                                                                                             0.00%
                             $7,213.00 $7,176.94
$7,478.78 $7,445.54
$10,447.88 $10,391.40
$44,882.00 $43,984.36
$8,626.00 $8,539.74
             $36.07
$33.24
                                                                                       $1.09
                                                                                                             3.02%
                                                                                       $1.16
                                                                                                             3.49%
               $56.48
                                                                                       $2.12
                                                                                                            3.75%
            $897.64
                                                                                       $0.00
9
                                                                                                            0.00%
             $86.26 $8,626.00 $5,...
$141.64 $141,640.00 $141,498.36
$14.61 $7,302.55 $7,287.94
10
                                                                                       $0.00
                                                                                                            0.00%
                                                                                        $0.00
                                                                                                            0.00%
                                                                                        $0.00
                                                                                                             0.00%
```

A

```
A. Distribusi data pada setiap atribut Purchase Price, Current Price dan Gain/Loss dengan grafik histogram
[30] 1 # Menampilkan histogram untuk atribut "Purchase Price" menggunakan Seaborn
      2 plt.figure(figsize=(20, 4))
      3 sns.histplot(data=data_stock, x='Purchase Price', kde=True, edgecolor='white', color='yellow')
      4 plt.xlabel('Purchase Price')
      5 plt.ylabel('Count')
      6 plt.title('Histogram of Purchase Price')
      7 plt.show()
      9 # Menampilkan histogram untuk atribut "Current Price" menggunakan Seaborn
     10 plt.figure(figsize=(20, 4))
     11 sns.histplot(data=data_stock, x='Current Price', kde=True, edgecolor='white', color='yellow')
     12 plt.xlabel('Current Price')
     13 plt.ylabel('Count')
     14 plt.title('Histogram of Current Price')
     15 plt.show()
     18 plt.figure(figsize=(20, 4))
     19 sns.histplot(data=data_stock, x='Gain/Loss', kde=True, edgecolor='white', color='yellow')
     20 plt.xlabel('Gain/Loss')
     21 plt.ylabel('Count')
     22 plt.title('Histogram of Gain/Loss')
     23 plt.show()
```







В

```
B. Atribut Stock Name dan Symbol yang memiliki Dividen / Share 5 tertinggi
      1 # Mengurutkan data berdasarkan kolom "Dividen/Share" secara menurun
[6]
      2 data_stock_dividendShare = data_stock.sort_values('Dividend/Share', ascending=False)
      4 # Mengambil 5 baris teratas
      5 top_5_dividends = data_stock_dividendShare.head(5)[['Stock Name', 'Symbol', 'Div|idend/Share']]
      8 print("Atribut Stock Name dan Symbol dengan Dividen/Share 5 tertinggi:")
      9 print(top_5_dividends)
    Atribut Stock Name dan Symbol dengan Dividen/Share 5 tertinggi:
Stock Name Symbol Dividend/Share
            Apple AAPL
                                   $2.28
         Qualcomm
                    QCOM
                                   $2.12
       Microsoft
                    MSFT
                                   $1.56
                                   $1.16
                   INTO
            Intel
                                   $1.09
```

```
C. Atribut Stock Name dan Symbol yang memiliki Market Value 5 tertinggi
                                                         + Kode + Teks
  [7]
οd
          3 data_stock_marketValue = data_stock.sort_values('Market Value', ascending=False)
          5 # Mengambil 5 baris teratas
          6 top_5_market_values = data_stock_marketValue.head(5)[['Stock Name', 'Symbol', 'Market Value']]
         9 print("Atribut Stock Name dan Symbol dengan Market Value 5 tertinggi:")
         10 print(top_5_market_values)
        Atribut Stock Name dan Symbol dengan Market Value 5 tertinggi:
                             Stock Name Symbol Market Value
            Alphabet GOOG $83,336.00
Hewlett Packard Enterprise HPE $8,842,50
Redhat RHT $8,626.00
        10
                                 Cisco CSCO
Twitter TWTR
                                                    $7,478.78
                                                    $7,302.55
```

D

```
D. Atribut Stock Name dan Symbol yang memiliki Annual Yield 7 tertinggi
                                                                                                      ↑ ↓ ⊖ =
     1 # Mengurutkan data berdasarkan kolom "Annual Yield" secara menurun
      2 data_stock_annualYield = data_stock.sort_values('Annual Yield', ascending=False)
     5 top_7_annual_yields = data_stock_annualYield.head(7)[['Stock Name', 'Symbol', 'Annual Yield']]
     7 # Menampilkan hasil, 7 data
8 print("Atribut Stock Name dan Symbol dengan Annual Yield 7 tertinggi:")
      9 print(top_7_annual_yields)
     Atribut Stock Name dan Symbol dengan Annual Yield 7 tertinggi:
                        Stock Name Symbol Annual Yield
                          Qualcomm QCOM
                             Cisco
                                                  3.49%
                             Intel
                                     INTO
                                                  3.02%
                         Microsoft
                                    MSFT
                                                  2.38%
                                    AAPL
HPE
                             Apple
                                                  1.58%
    0
       Hewlett Packard Enterprise
                                                  1.47%
                                                  1.44%
                            Oracle ORCL
```