07/04/2022, 18:38 QUES5

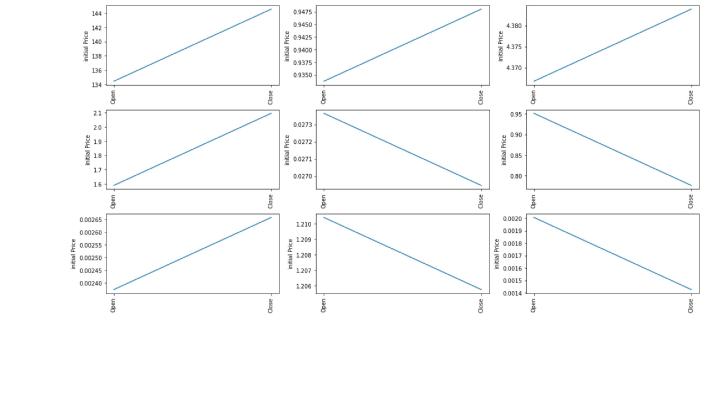
1. Represent initial sale date for every token according to data provided.

```
In [ ]:
           import pandas as pd
           import matplotlib.pyplot as plt
In [ ]:
           bitcoin = pd.read_csv('D:\python\data\coin_Bitcoin.csv')
           ethereum = pd.read_csv('D:\python\data\coin_Ethereum.csv')
           ethereum = ethereum.sort_values('Date')
           Litecoin = pd.read csv('D:\python\data\coin Litecoin.csv')
          Monero = pd.read_csv('D:\python\data\coin_Monero.csv')
           Ripple = pd.read_csv('D:\python\data\coin_Ripple.csv')
           Ripple = Ripple.sort_values('Date')
           Solana = pd.read_csv('D:\python\data\coin_Solana.csv')
           Stellar = pd.read csv('D:\python\data\coin Stellar.csv')
           Tether = pd.read_csv('D:\python\data\coin_Tether.csv')
           Tron = pd.read_csv('D:\python\data\coin_Tron.csv')
In [ ]:
           fig, axes = plt.subplots(nrows=3, ncols=3, figsize=(20, 10))
           bitcoin[["Open","Close"]].iloc[0].plot(ax=axes[0][0], kind='bar')
           ethereum[["Open", "Close"]].iloc[0].plot(ax=axes[0][1], kind='bar')
           Litecoin[["Open","Close"]].iloc[0].plot(ax=axes[0][2], kind='bar')
           Monero[["Open","Close"]].iloc[0].plot(ax=axes[1][0], kind='bar')
           Ripple[["Open","Close"]].iloc[0].plot(ax=axes[1][1], kind='bar')
           Solana[["Open","Close"]].iloc[0].plot(ax=axes[1][2], kind='bar')
           Stellar[["Open","Close"]].iloc[0].plot(ax=axes[2][0], kind='bar')
           Tether[["Open","Close"]].iloc[0].plot(ax=axes[2][1], kind='bar')
           Tron[["Open","Close"]].iloc[0].plot(ax=axes[2][2], kind='bar')
           for ax in fig.axes:
               plt.ylabel('initial Price')
               plt.sca(ax)
               plt.xticks(rotation=90);
           fig.tight_layout()
           100
                                                                                initial Price
                                             <u>9</u> 0.6
            80
                                             필 0.4
           60
                                              0.2
                    Dpen
                                             0.025
           1.75
                                                                                0.8
                                             0.020
           1.50
                                                                               <u>9</u> 0.6
          분 1.25
                                            E 0.015
           1.00
                                                                               0.4
                                            Ē 0.010
           0.75
           0.50
                                                                                0.2
                                             0.005
           0.25
           0.00
                    Open
                                                      Open
                                                                     Close
                                                                                        Open
                                   Close
                                                                                                       Close
                                                                              0.00200
                                              1.2
          0.0025
                                                                              0.00175
                                              1.0
          0.0020
                                                                              0.00150
                                             9.0.8
H
                                                                              0.00125
                                            o.6 -
          0.0015
                                                                              0.00100
          0.0010
                                                                              0.00075
                                              0.4
                                                                              0.00050
          0.0005
                                              0.2
                                                                              0.00025
```

file:///D:/python/QUES5.html

07/04/2022, 18:38 QUES5

```
In [ ]:
          fig, ax = plt.subplots(nrows=3 , ncols=3 , figsize=(16,8))
          a = bitcoin[['Open', 'Close']].iloc[0]
          ax[0][0].plot(a)
          b = ethereum[['Open', 'Close']].iloc[0]
          ax[0][1].plot(b)
          c = Litecoin[['Open', 'Close']].iloc[0]
          ax[0][2].plot(c)
          d = Monero[['Open', 'Close']].iloc[0]
          ax[1][0].plot(d)
          e = Ripple[['Open', 'Close']].iloc[0]
          ax[1][1].plot(e)
          f = Solana[['Open', 'Close']].iloc[0]
          ax[1][2].plot(f)
          g = Stellar[['Open', 'Close']].iloc[0]
          ax[2][0].plot(g)
          h = Tether[['Open', 'Close']].iloc[0]
          ax[2][1].plot(h)
          i = Tron[['Open', 'Close']].iloc[0]
          ax[2][2].plot(i)
          for ax in fig.axes:
              plt.ylabel('initial Price')
              plt.sca(ax)
              plt.xticks(rotation=90)
          fig.tight_layout()
                                            0.9475
            144
                                            0.9450
                                                                             4.380
            142
          9 144
140
                                           0.9425
                                                                             4.375
                                           0.9400
           138
                                           0.9375
                                                                             4.370
            136
                                            0.9350
            134
            2.1
                                                                              0.95
                                           0.0273
            2.0
                                                                            9je
0.90
           분 19
                                          분 0.0272
```



file:///D:/python/QUES5.html