

```
# -*- coding: utf-8 -*-
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''''
```

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Created on Mon May 13 09:59:47 2019
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```
@author: ebdegu01
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```

```
import pandas as pd
```

```
open_price_data = {
```

```
'Date':['5/10/2019','5/9/2019','5/8/2019','5/7/2019','5/6/2019','5/3/2019','5/2/2019','4/30/2019','4/29/2019','4/26/2019','4/25/2019','4/24/2019','4/23/2019','4/18/2019','4/17/2019','4/16/2019','4/15/2019'],
```

```
    'Open
```

```
Price':[247.3,255.45,250.2,252.85,244.7,234.8,228.9,228.45,228.8,228.9,229,230.55,231.6,228.85,229.55,226.9,225.45]
```

```
    }
```

```
df1 = pd.DataFrame(open_price_data)
```

```
print(df1)
```

```
closing_price_data = {
```

```
'Date':['5/10/2019','5/9/2019','5/8/2019','5/7/2019','5/6/2019','5/3/2019','5/2/2019','4/30/2019','4/29/2019','4/26/2019','4/25/2019','4/24/2019','4/23/2019','4/18/2019','4/17/2019','4/16/2019','4/15/2019'],
```

```
    'Closing
```

```
Price':[253.05,250.8,256,249.8,253.3,249.65,228.75,228.75,228,229.1,229.4,230.65,231.1,232.1,229.25,229.2,226.55]
```

```
    }
```

```
df2 = pd.DataFrame(closing_price_data)
```

```
print(df2)
```

```
daily_high_data = {
```

```
'Date':['5/10/2019','5/9/2019','5/8/2019','5/7/2019','5/6/2019','5/3/2019','5/2/2019','4/30/2019','4/29/2019','4/26/2019','4/25/2019','4/24/2019','4/23/2019','4/18/2019','4/17/2019','4/16/2019','4/15/2019'],
```

```
    'Daily
```

```
High':[253.05,256.3,257.55,254.15,253.6,249.85,229.2,229.6,229.8,229.7,230,231.55,231.6,232.6,230.35,229.55,227.6]
```

```
    }
```

```
df3 = pd.DataFrame(daily_high_data)
```

```
print(df3)
```

```
daily_low_data = {
```

```
'Date':['5/10/2019','5/9/2019','5/8/2019','5/7/2019','5/6/2019','5/3/2019','5/2/2019','4/30/2019','4/29/2019','4/26/2019','4/25/2019','4/24/2019','4/23/2019','4/18/2019','4/17/2019','4/16/2019','4/15/2019'],
```

```
    'Daily
```

```
Low':[247.3,248.45,249.8,249.8,243.1,234.8,225.7,227.95,227,227.45,227.8,230.2,229.65,228.85,228.05,226.7,225]
```

```
    }
```

```
df4 = pd.DataFrame(daily_low_data)
```

```
print(df4)
```

```
volume_data = {
```

```
'Date':['5/10/2019','5/9/2019','5/8/2019','5/7/2019','5/6/2019','5/3/2019','5/2/2019','4/30/2019','4/29/2019','4/26/2019','4/25/2019','4/24/2019','4/23/2019','4/18/2019','4/17/2019','4/16/2019','4/15/2019'],
```

```
    'Volume':[680,784,1565,1633,2803,3026,614,236,695,985,302,483,485,905,968,576,1456]
```

```
    }
```

```
df5 = pd.DataFrame(volume_data)
print(df5)
```

```
writer = pd.ExcelWriter('C:\\Users\\ebdegu01\\Documents\\Programming Notes\\Python
Scripts\\addidas.xlsx', engine = 'xlsxwriter')
```

```
df1.to_excel(writer, sheet_name = 'Open_Price')
df2.to_excel(writer, sheet_name = 'Closing_Price')
df3.to_excel(writer, sheet_name = 'Daily_High')
df4.to_excel(writer, sheet_name = 'Daily_Low')
df5.to_excel(writer, sheet_name = 'Volume')
```

```
workbook = writer.book
```

```
def op_chart():
```

```
    worksheet_op = writer.sheets['Open_Price']
    chart_op = workbook.add_chart({'type': 'line'})
    chart_op.add_series({
        'values': '=Open_Price!$C$2:$C$18',
        'categories': '=Open_Price!$B$2:$B$18',
    })
    worksheet_op.insert_chart('E2', chart_op)
```

```
def cp_chart():
```

```
    worksheet_cp = writer.sheets['Closing_Price']
    chart_cp = workbook.add_chart({'type': 'line'})
    chart_cp.add_series({
        'values': '=Closing_Price!$C$2:$C$18',
        'categories': '=Closing_Price!$B$2:$B$18',
    })
    worksheet_cp.insert_chart('E2', chart_cp)
```

```
def dh_chart():  
    worksheet_dh = writer.sheets['Daily_High']  
    chart_dh = workbook.add_chart({'type': 'line'})  
    chart_dh.add_series({  
        'values': '=Daily_High!$C$2:$C$18',  
        'categories': '=Daily_High!$B$2:$B$18',  
    })  
    worksheet_dh.insert_chart('E2', chart_dh)
```

```
def dl_chart():  
    worksheet_dl = writer.sheets['Daily_Low']  
    chart_dl = workbook.add_chart({'type': 'line'})  
    chart_dl.add_series({  
        'values': '=Daily_Low!$C$2:$C$18',  
        'categories': '=Daily_Low!$B$2:$B$18',  
    })  
    worksheet_dl.insert_chart('E2', chart_dl)
```

```
def vol_chart():  
    worksheet_vol = writer.sheets['Volume']  
    chart_vol = workbook.add_chart({'type': 'line'})  
    chart_vol.add_series({  
        'values': '=Volume!$C$2:$C$18',  
        'categories': '=Volume!$B$2:$B$18',  
    })  
    worksheet_vol.insert_chart('E2', chart_vol)
```

```
op_chart()
```

cp_chart()

dh_chart()

dl_chart()

vol_chart()

writer.save()