

Lab 0

write a python program to import & export data using pandas library functions and plot stock details for banks

Exp 01

Code

```
import yfinance as yf
import pandas as pd
import matplotlib.pyplot as plt

TICKERS = ['HDFCBANK', 'ICICIBANK', 'KOTAKBANK',
           'RBL.NS', 'FOS.NS', 'INDUS.NS']

data = yf.download(TICKERS, start="2022-01-01",
                   end="2022-12-31", group_by='tickers')

print("First 5 rows of the dataset:")
print(data.head())

print("In shape of the dataset: ")
print(data.shape)

print("In column names: ")
print(data.columns)

reliance_data = data['RBL.NS']
print(reliance_data)
print("In summary statistics for Reliance Industries: ")
print(reliance_data.describe())
```

```
reliance_data['Daily Return'] = reliance_data  
['close'].pct-  
change()
```

```
plt.figure(figsize=(12,6))  
plt.subplot(2,1,1)  
reliance_data['close'].plot(title="Reliance  
Industries - Closing Price")  
plt.subplot(2,1,2)  
reliance_data['Daily Return'].plot(title=  
"Reliance Industries - daily returns",  
color='orange')  
plt.tight_layout()  
plt.show()
```

```
ICICI_data = data['ICICI', NS"]  
ICICI_data['Daily Return'] = ICICI_data  
['close'].pct-  
change()
```

```
plt.figure(figsize=(12,6))  
plt.subplot(2,1,1)  
reliance_data['close'].plot(title="ICICI - Closing price")  
plt.subplot(2,1,2)  
ICICI_data['Daily Return'].plot(title=  
"Reliance Industries - daily returns", color  
='orange')  
plt.tight_layout()  
plt.show()
```