LAB - 001

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TO - DO - 1

i) Initializing values directly into Dataframe

```
import pandas as pd

data = {
    'USN' : ['001', '002', '003', '004', '005'],
    'Name' : ['Alice', 'Bob', 'Charlie', 'David', 'Eve'],
    'Marks' : [25, 30, 35, 40, 45]}
df = pd.DataFrame(data)
print("Sample Data : ")
print(df.head())
```

ii) Importing datasets from sklearn datasets

```
from sklearn.datasets import load_diabetes
import pandas as pd
diabetes = load_diabetes()
df = pd.DataFrame(diabetes.data, columns=
    diabetes.feature_names)
df['target'] = diabetes.target
print(df.head())
```

iii) Importing datasets from a specific .csv file.

```
file_path = 'Dataset of Diabetes.csv'
df = pd.read_csv(file_path)
print(df.head())
```

iv) Downloading datasets from existing dataset repositories like Kaggle, UCI.

```
df = pd.read_csv('/Dataset of Diabetes.csv')
print("Sample data:")
print(df.head())
```

To-Do-2

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

tickers = ['HDFCBANK.NS', "ICICIBANK.NS",
           "KOTAKBANK.NS"]
start_date = "2024-01-01"
end_date = "2024-12-30"

data = yf.download(tickers, start = start_date,
    end = end_date, group_by = 'tickers')
for ticker in tickers:
    stock_data = data[ticker]
    stock_data = ['Daily Return'] = stock_data
    ['close'].pct_change()
    plt.subplot(2,1,1)
    stock_data['close'].plot(title = f"{ticker}
        closing_price")
    plt.ylabel("Price (INR)")
    plt.subplot(2,1,2)
    stock_data['Daily Returns', color = 'orange']
    "{ticker} - Daily Returns", color = 'orange')
    plt.ylabel("Daily Return")
    plt.tight_layout()
    plt.show()
```