

## LAB - 0

## To Do

Method - 1 :- Initializing values into DataFrame

Code :- import pandas as pd

data = { "Name": ['Alice', 'Bob', 'Charlie', 'David'],  
'USN': [1, 2, 3, 4], 'Marks': [88, 82, 90, 85] }

df = pd.DataFrame(data) print(df.head())

Output :-

Sample data :

	Name	USN	Marks
0	Alice	1	88
1	Bob	2	82
2	Charlie	3	90
3	David	4	85

Method - 2 :- Importing datasets from sklearn.datasets

Code :- from sklearn.datasets import load\_diabetes

diabetes = load\_diabetes()

df = pd.DataFrame(diabetes.data, columns=diabetes.feature\_names)

df['target'] = diabetes.target

print(df.head(5))

Output :-

	age	sex	bmi	bp	s1	s2	s3
0	0.038	0.050	0.061	0.021	-0.044	-0.034	-0.04
1	-0.001	-0.049	-0.51	-0.08	-0.084	-0.9163	-0.044

2 0.085299 0.050680 0.44451 -0.0056 0.046  
 3 -0.089063 -0.049642 -0.011588 -0.0366 0.0120  
 4 0.005383 -0.0446 -0.036 0.0218 0.0036

54            85            50            taget

0	-0.002592	0.0815	-0.01487	751
1	-0.03943	-0.0526	-0.0956	75
2	-0.007591	0.0637	-0.02456	145
3	0.034309	0.0448	-0.03123	206
4	-0.002597	-0.0359	-0.02456	135

Method - 3:- Importing datasets from a specific code:- import pandas as pd

filepath = '/content/ml1ab1.csv'

df = pd.read\_csv(filepath)

print(df.head(5))

Output:-

ID	NAME	AGE	CITY
0	Alice	25	NY
1	Bob	30	Los Angeles
2	Charlie	35	Chicago
3	David	40	Houston
4	Eva	48	Phoenix
5	Giga	20	Texas

Method 4:- Import/ Downloading datasets from Kaggle

code:- import pandas as pd

```
df = pd.read_csv('content/Dataset of Dr. Abhishek Chauhan.csv')
print(df.head(1))
```

ID	NO_PATIO	Gender	AGE	URBAN	LYR	ALBANIC	CHOL
0	502	17	F	50	47	46	4.9
1	735	34	M	26	45	62	4.9
2	430	47	F	50	47	96	4.9
3	680	84	F	50	47	46	4.9

### BMI MSS

0	24	N
1	23	N
2	24	N
3	24	N

### Exporting Stock Market

code:- import yfinance as yf.

import pandas as pd.

import matplotlib.pyplot as plt.

tickers = ["INDCBANK.NS", "ICIEBANK.NS", "ROTAK.BANK"]

data = yf.download(ticker, start="2024-01-01", end="2024-12-31", groupby=ticker)

for ticker in tickers:

data.loc[:, /ticker, 'Daily Return'] = data

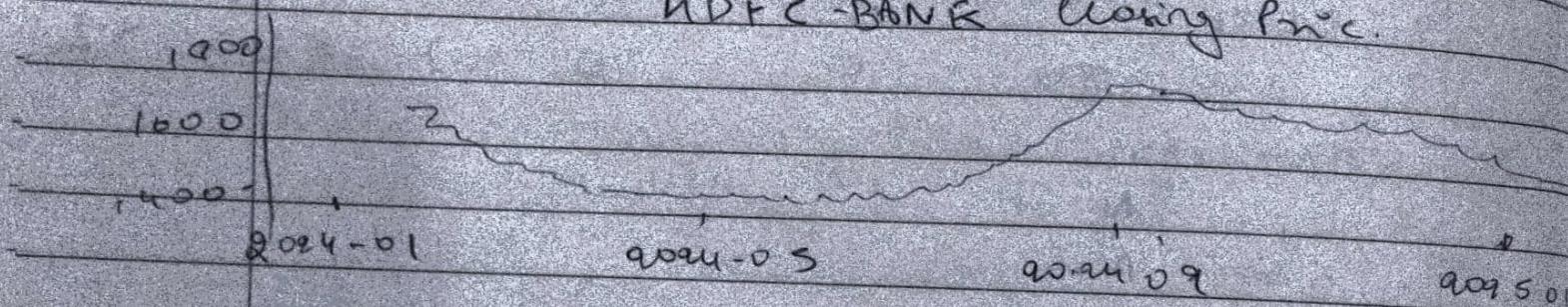
```

[trikay's close]. plot change()
plt.figure(figsize=(12, 6))
for i, tick in enumerate(tickers):
    plt.subplot(3, 1, i+1)
    data[tick].plot(figsize=(12, 6), title=f'{tick} - Daily Return', color='orange')
    plt.tight_layout()
plt.show()

```

Output:-

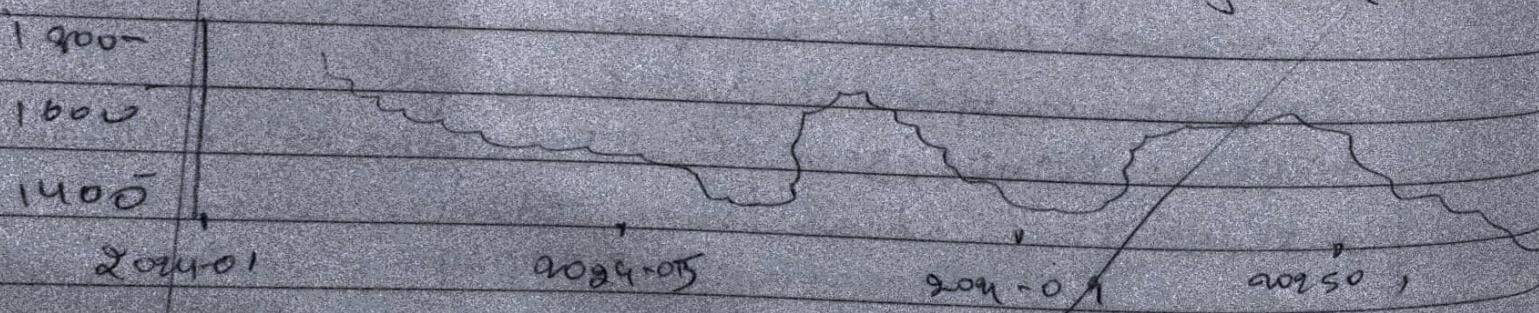
HDFC-BANK Closing Price



I CICI BANK - Closing Price

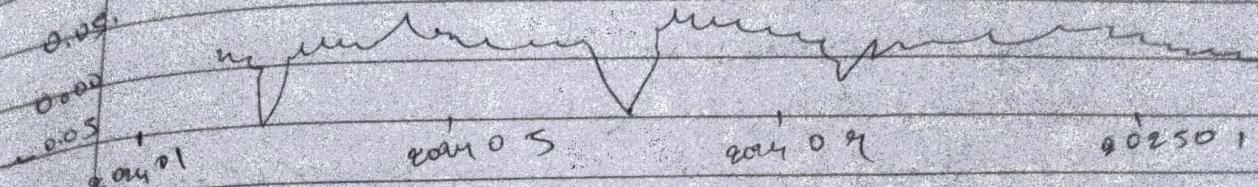


MOTAK BANK - Closing Price

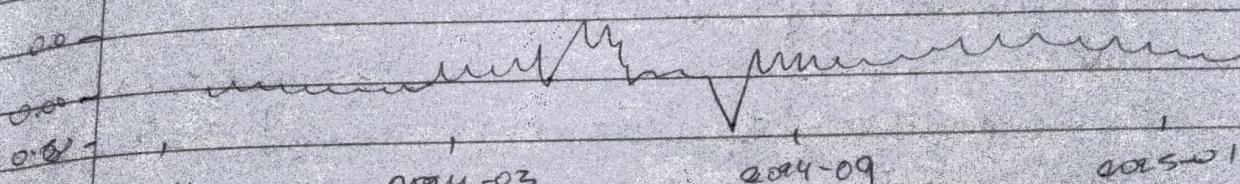


VOLVVA

### NDFC BANK Daily Returns



### ICICI BANK Daily Returns



### KOTAK BAN. NS Daily Returns

