

To-Do - 1

Using ~~Stock market data analysis~~

```
1) import Pandas as pd
data = { 'name': ['U', 'V', 'W', 'X', 'Y']
        'USN' : [111, 222, 333, 444, 555]
        'Marks' : [64, 30, 80, 90, 50]
        }
```

```
df = pd.DataFrame(data)
Print ("Sample data")
Print (df.head())
```

output:

	name	USN	Marks
0	Alice	25	New York
1	Bob	30	Los Angeles

2) Importing data sets from sklearn datasets

```
from sklearn.datasets import load_diabetes
diabetes = load_diabetes()
```

```
df = pd.DataFrame(diabetes.data, columns=
                  diabetes.feature_names)
```

```
df['target'] = diabetes.target
```

```
Print ("Sample")
```

```
Print (df.head())
```

```
3) file_path = '/content/sample_data/
               colyomraht.csv'
```

```
df = pd.read_csv(file_path)
```

```
Print = (df.head())
```

```
Print ("\n")
```

output

4) import Pandas as pd

df = pd.read_csv ('/content/Diabetes Dataset (2).csv.zip')

Print (df.head (1))

df.to_csv ('output.csv', index = false)

Print ("Data Saved to output.csv")

Output:

IP	No. Patients	Gender	AGE	Urea	Cr
0	5020	F	50	4.7	46
1	735	M	60	4.5	62
2	420	F	70	4.3	32
3	680	F	30	4.6	56
4	504	M	50	3.2	63

FE	HDL	BMI	GLASS
0	24.0	2.1	N
1	23.0	3.2	N
2	24.0	4.3	N
3	24.0	5.6	N
4	21.0	6.2	N

5) Stock Market Data Analysis

1) HDFC Bank Ltd., ICICI BANK Ltd.,
Kotak Mahindra Bank Ltd.

```
tickers = ["HDFCBANK.NS", "ICICIBANK.NS",  
           "KOTAKBANK.NS"]
```

2) Start date : 2024-01-01 End date : 2024-12-30.

```
import yfinance as yf
```

```
import pandas as pd
```

```
import matplotlib.pyplot as plt
```

```
tickers = ["HDFCBANK.NS", "ICICIBANK.NS",  
           "KOTAKBANK.NS"]
```

```
data = yf.download(tickers, start = "2024-01-01",  
                   end = "2024-12-30", group_by = 'ticker')
```

```
Print ("first 5 rows of dataset:")
```

```
Print (data.head())
```

```
Print ("\n shape of dataset: ")
```

```
Print (data.shape)
```

```
Print ("In column names: ")
```

```
Print (data.columns)
```

```
Print ("In summary statistics for HDFC Bank: ")  
Print (data["HDFCBANK.NS"].describe())
```

```
Print ("In summary statistics for ICICI Bank: ")  
Print (data["ICICIBANK.NS"].describe())
```

```
data["HDFCBANK.NS"]['Daily return'] = data  
["HDFCBANK.NS"]['close'].  
pct-change()
```

```
plt.figure(figsize=(14,10))
```

```
plt.subplot(3,2,1)
```

```
data['HDFCBANK.NS']
```

```
plt.subplot(3,2,1)
```

```
data['ICICI BANK.NS']
```

```
(title="HDFC BANK - Using P")
```

```
data["HDFCBANK.NS"].to_csv('hdfc-bank_data.csv')
```

```
data['ICICIBANK.NS'].to_csv('icici-bank_data.csv')
```

```
Print("\n Bank Stock data saved to  
csv files")
```

Another

(1) Import Pandas as Pd

```
data = {
```

```
name: [Alice, Bob, Charlie, David]
```

```
age: [25, 30, 40, 12]
```

```
city: [New York, Los Angeles, Chicago, Houston]
```

```
}
```

```
df = Pd.DataFrame(data)
```

```
Print("Sample data:")
```

```
Print(df.head(3))
```

Output:

	name	age	city
0	Alice	25	New York
1	Bob	30	Chicago

2) from sklearn, datasets - import load_iris

iris = load_iris()

df = pd.DataFrame(iris.data, columns=iris.feature_names)

df['target'] = iris.target

Print('sample data:')

Print(df.head())

out put:

	sepal length	sepal width	petal length
0	5.1	3.4	0.2
1	4.3	1.4	0.2

5.1
3.4
0.2
C1
C2
C3