

* Different ways of importing datasets

Method-1 :- Initialize values directly into dataframe

import pandas as pd

```
data = {
    "USN": ["1bm22cs417", "1bm22cs112", "1bm22cs225", "1bm22cs441", "1bm22cs512"],
    "Name": ["Rohit", "Rahul", "Gaj", "Renuka", "Pranitha"],
    "Marks": [85, 90, 78, 88, 92]
}
```

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

Output:-

	USN	Name	Marks
0	1bm22cs417	Rohit	85
1	1bm22cs112	Rahul	90
2	1bm22cs225	Gaj	78
3	1bm22cs441	Renuka	88
4	1bm22cs512	Pranitha	92

Method 2 :- 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

df.head()

Output:-

	age	sex	bmi	bp	s1	s2	s3	s4	s5	s6	target
0	0.03	0.05	0.06	0.02	-0.04	-0.03	-0.04	-0.002	0.009	-0.017	151.0
1											
2											
3											
4											

Method-3 :- Importing datasets from a specific csv file

```
df2 = pd.read_csv('/content/Dataset of Diabetes.csv', encoding='latin-1')
print("Sample - data:")
print(df2.head(1))
```

Output -

Sample data:

ID	No. Patient	Gender	AGE	Urea	Ca	HbA1c	Glucose	TC	HDL	LDL	Urea Cr
0	502	F	50	4.7	46	4.4	6.2	8.9	3.6	1.4	0.5
1											
2											
3											
4											

* Analysing the dataset:

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

```
tickers = ("HDFC.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 the datasets:")
print(data.head())
```

```
print("In Shape of the dataset:")
```

```
print(data.shape)
```

```
print("In Column names:")
```

```
print(data.columns)
```

```
hdfc_data = data["HDFCBANK.NS"]
```

```
print("In Summary statistics for HDFC industries:")
```

```
print(hdfc_data.describe())
```

```
hdfc_data['Daily Return'] = hdfc_data['close'].pct_change()
```

```
plt.figure(figsize = (12, 6))
```

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

```
hdfc_data['close'].plot(title = "hdfc - (closing Price)")
```

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

```
hdfc_data['Daily Return'].plot(title = "hdfc - daily Returns", color = 'orange')
```

```
plt.tight_layout()
```

```
plt.show()
```

```
hdfc_data.to_csv('hdfc_data.csv')
```

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