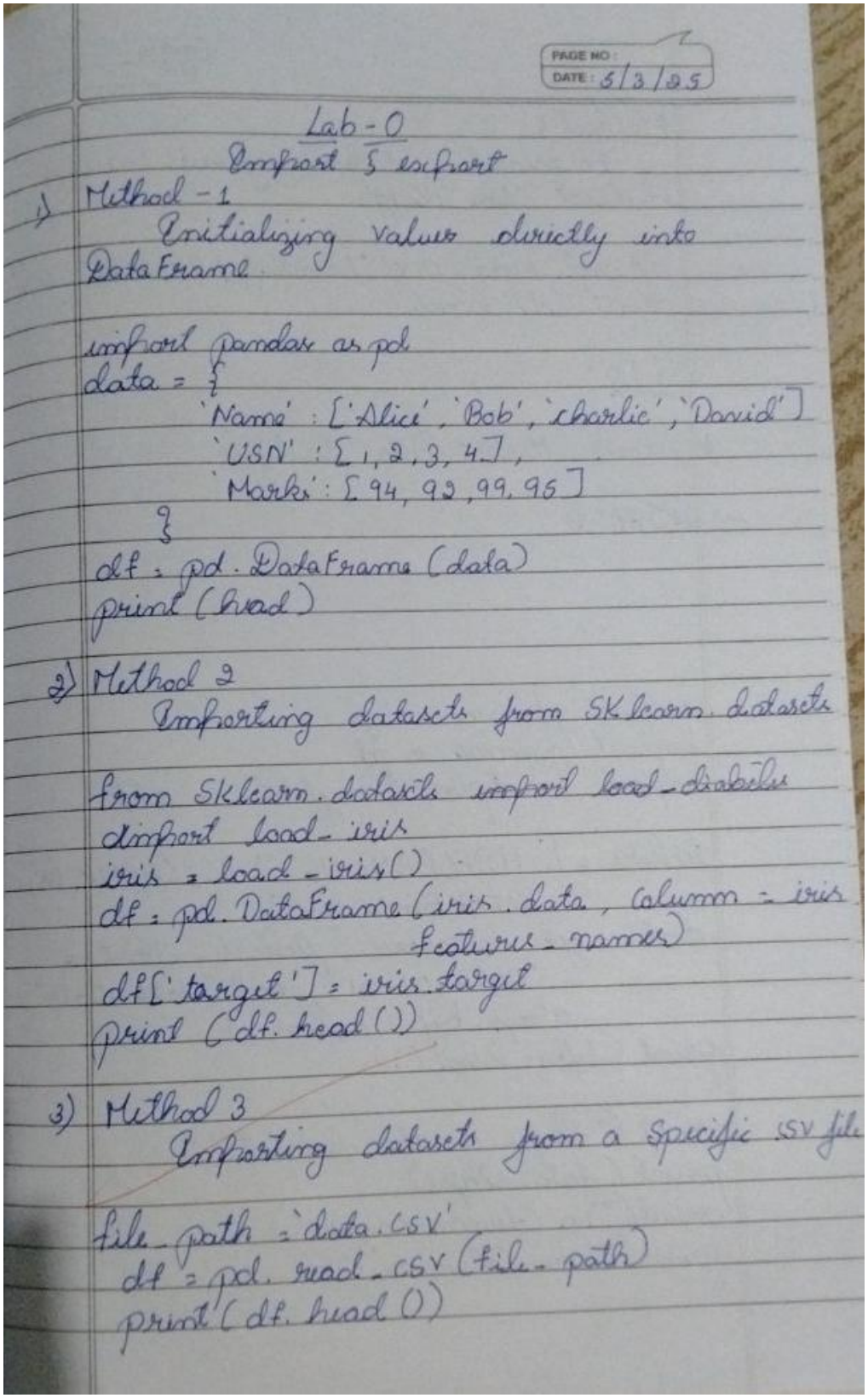
Lab-0
Import and Export Data



PAGE NO:
DATE: 5/3/25

Lab-0
Import & export

1) Method - 1
Initializing value directly into DataFrame

```
import pandas as pd
data = {
    'Name' : ['Alice', 'Bob', 'charlie', 'David']
    'USN' : [1, 2, 3, 4],
    'Marks' : [94, 92, 99, 95]
}
df = pd.DataFrame(data)
print(head)
```

2) Method 2
Importing datasets from SK.learn.datasets

```
from Sklearn.datasets import load_diabetes
dimport load_iris
iris = load_iris()
df = pd.DataFrame(iris.data, column = iris
                  features_names)
df['target'] = iris.target
print(df.head())
```

3) Method 3
Importing datasets from a specific CSV file

```
file_path = 'data.csv'
df = pd.read_csv(file_path)
print(df.head())
```

PAGE NO :
DATE :

Method 4:
Downloading dataset from existing dataset like Kaggle.

```
df = pd.read_csv('/content/Diabetes.csv')
print(df.head)
```

To Do

1) Stock Market Data Analysis

→ ~~HDFC B~~

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

tickers = ['HDFCBANK.NS', 'ICICBANK.NS',
           'KOTAKBANK.NS']
data = yf.download(tickers, start =
       "2024-01-01", end = "2024-12-30",
       group_by = 'tickers')
print(data.head())

print("Shape of the dataset:")
print(data.shape)
print("\n Column names:")
print("data.Columns")
```

PAGE NO :
DATE :

```
hdfc_data = data["HDFC BANK.NS"]
print("Summary:")
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 Clos")
plt.subplot(2,1,2)
hdfc_data['Daily Return'].plot(title=HDFC,
        color='orange')
plt.tight_layout
plt.show()
```