**Name:-Nilesh Pralhad Narkhede**

**Roll No.:-105**

**Assignment No.: -09**

**Assignment Title:-Demonstrate use of DataFrame method and use of .csv files.**

# Create empty DataFrame  
import pandas as pd  
df = pd.DataFrame()  
print(df)  
**Output:**

Empty DataFrame

Columns: []

Index: []  
  
# Create DataFrame for List Ex - 1  
import pandas as pd  
data = [1,2,3,4,5]  
df = pd.DataFrame(data)  
print(df)  
**Output:**

0

0 1

1 2

2 3

3 4

4 5  
  
# Create DataFrame for List Ex - 2  
import pandas as pd  
data = [['Shubham', 'MCA - II'],['Nilesh', 'MCA - I'],['Hemangi', 'MCA - II'], ['Anjali', 'MCA - I'] ]  
df = pd.DataFrame(data,columns=['Name','Class'])  
print(df)  
**Output:**

Name Class

0 Shubham MCA - II

1 Nilesh MCA - I

2 Hemangi MCA - II

3 Anjali MCA - I  
  
# Create Dataframe for CSV File  
import pandas as pd  
df = pd.read\_csv(' C:/Users/admin/Downloads/username\_CSV\_File\_for\_Exampls1.csv')  
print(df)

**Output:-**

Username Identifier First name Last name

0 booker12 9012 Rachel Booker

1 grey07 2070 Laura Grey

2 johnson81 4081 Craig Johnson

3 jenkins46 9346 Mary Jenkins

4 smith79 5079 Jamie Smith

5 booker12 9012 Rachel Booker

6 grey07 2070 Laura Grey

7 johnson81 4081 Craig Johnson

8 jenkins46 9346 Mary Jenkins

9 smith79 5079 Jamie Smith  
  
# Create Dataframe for CSV File  
import pandas as pd  
df = pd.read\_csv(C:/Users/admin/Downloads/username\_CSV\_File\_for\_Exampls1.csv ', sep='\t')  
print(df.to\_markdown())

**Output:-**

| | Username,Identifier,First name,Last name |

|---:|:-------------------------------------------|

| 0 | booker12,9012,Rachel,Booker |

| 1 | grey07,2070,Laura,Grey |

| 2 | johnson81,4081,Craig,Johnson |

| 3 | jenkins46,9346,Mary,Jenkins |

| 4 | smith79,5079,Jamie,Smith |

| 5 | booker12,9012,Rachel,Booker |

| 6 | grey07,2070,Laura,Grey |

| 7 | johnson81,4081,Craig,Johnson |

| 8 | jenkins46,9346,Mary,Jenkins |

| 9 | smith79,5079,Jamie,Smith |

# Functions

import pandas as pd  
df =pd.read\_csv("C:/Users/admin/Downloads/username\_CSV\_File\_for\_Exampls1.csv ")  
print(len(df))  
print(df.shape)  
print(df.head(2))  
print(df.count())  
print(df.to\_dict())

**Output:-**

10

(10, 4)

Username Identifier First name Last name

0 booker12 9012 Rachel Booker

1 grey07 2070 Laura Grey

Username 10

Identifier 10

First name 10

Last name 10

dtype: int64

{'Username': {0: 'booker12', 1: 'grey07', 2: 'johnson81', 3: 'jenkins46', 4: 'smith79', 5: 'booker12', 6: 'grey07', 7: 'johnson81', 8: 'jenkins46', 9: 'smith79'}, 'Identifier': {0: 9012, 1: 2070, 2: 4081, 3: 9346, 4: 5079, 5: 9012, 6: 2070, 7: 4081, 8: 9346, 9: 5079}, 'First name': {0: 'Rachel', 1: 'Laura', 2: 'Craig', 3: 'Mary', 4: 'Jamie', 5: 'Rachel', 6: 'Laura', 7: 'Craig', 8: 'Mary', 9: 'Jamie'}, 'Last name': {0: 'Booker', 1: 'Grey', 2: 'Johnson', 3: 'Jenkins', 4: 'Smith', 5: 'Booker', 6: 'Grey', 7: 'Johnson', 8: 'Jenkins', 9: 'Smith'}}