Name:-Rina Kailas Mali

Roll no :-95 practical no:-1

Practical name:- Introduction to pycharm , Pandas Library, DataFrames, And Loading CSV File in DataFrame.

import pandas as pd  
'''pd.\_\_version\_\_'''  
  
df1 = pd.DataFrame({"A": [1, 2, 3], "B": [2, 3, 4]}, index=[0, 1, 2])  
print("df1:\n", df1)  
  
df2 = pd.DataFrame({"B": [4, 5, 7], "C": ["x", "y", "z"]}, index=[4, 5, 6])  
print("\ndf2:\n", df2)  
  
df3 = df1.combine\_first(df2)  
print("\n combination of df1 and df2:\n", df3)  
  
  
classes = pd.Series(["mathematics", "chemistry", "physics", "history", "geography", "german"])  
grades = pd.Series([90, 54, 77, 22, 25, 40])  
year = pd. Series([2015, 2016, 2017, 2018, 2019, 2020])  
df4 = pd. DataFrame({"Classes": classes, "Grades": grades, "Year": year})  
print("\n", df4)  
  
# upload a csv file in sample\_data section  
# load the .csv in data frame  
  
data\_frame = pd.read\_csv("C:/Users/patil/Documents/sheet2.csv")  
print("\n", data\_frame)

**output:-** C:\Users\patil\PycharmProjects\ml\venv\Scripts\python.exe C:\Users\patil\PycharmProjects\ml\ml1.py

df1:

A B

0 1 2

1 2 3

2 3 4

df2:

B C

4 4 x

5 5 y

6 7 z

combination of df1 and df2:

A B C

0 1.0 2 NaN

1 2.0 3 NaN

2 3.0 4 NaN

4 NaN 4 x

5 NaN 5 y

6 NaN 7 z

Classes Grades Year

0 mathematics 90 2015

1 chemistry 54 2016

2 physics 77 2017

3 history 22 2018

4 geography 25 2019

5 german 40 2020

Sky Air temp Humidity Wind Water Forcast Enjoysport

0 sunny warm Normal strong warm same yes

1 sunny warm High strong warm same yes

2 sunny cold High strong warm same yes

3 Rainy cold Normal strong cold change no

4 sunny cold High weak warm change no

5 sunny cold Normal weak warm same yes

6 Rainy warm High weak cold change no

Process finished with exit code 0