**Name: Swati Kishor Pardeshi**

**Roll No: 118**

**Practical No: 1- Pandas Library**

**------------------------------------------------------------------------------------**

import pandas as pd  
print(pd.\_\_version\_\_)  
  
df1 = pd.DataFrame({"City": ["Dhule","Mumbai","Nashik"],"State":["Maharashtra","Asam","Bihar"]},index = [0,1,2])  
print(df1)  
  
df2 = pd.DataFrame({"State":["Punjab","Himachal","Kerla"],"pincode":["123456","456578","268535"]},index = [4,5,6])  
print(df2)  
  
df3 = df1.combine\_first(df2)  
print(df3)  
  
classes = pd.Series(["Math","Hindi","English","Marathi","History","Chemistry"])  
grades = pd.Series ([65,76,89,45,90,89])  
print(pd.\_\_version\_\_)  
  
df1 = pd.DataFrame({"City": ["Dhule","Mumbai","Nashik"],"State":["Maharashtra","Asam","Bihar"]},index = [0,1,2])  
print(df1)  
df2 = pd.DataFrame({"State":["Punjab","Himachal","Kerla"],"pincode":["123456","456578","268535"]},index = [4,5,6])  
print(df2)  
  
df3 = df1.combine\_first(df2)  
print(df3)  
  
classes = pd.Series(["Math","Hindi","English","Marathi","History","Chemistry"])  
grades = pd.Series ([65,76,89,45,90,89])  
year = pd.Series([2012,2015,2017,2019,2021,2022])  
print(pd.DataFrame({"classes":classes,"Grades":grades,"year":year}))  
  
DataFrame = pd.read\_csv("C:/Users/DELL/Desktop/datafile2.csv")  
print(DataFrame)  
  
year = pd.Series([2012,2015,2017,2019,2021,2022])  
print(pd.DataFrame({"classes":classes,"Grades":grades,"year":year}))  
  
DataFrame = pd.read\_csv("C:/Users/DELL/Desktop/datafile2.csv")  
print(DataFrame)

**Output:**

C:\Users\DELL\PycharmProjects\p1.py\venv\Scripts\python.exe C:\Users\DELL\PycharmProjects\p1.py\pandas1.py

1.5.3

City State

0 Dhule Maharashtra

1 Mumbai Asam

2 Nashik Bihar

State pincode

4 Punjab 123456

5 Himachal 456578

6 Kerla 268535

City State pincode

0 Dhule Maharashtra NaN

1 Mumbai Asam NaN

2 Nashik Bihar NaN

4 NaN Punjab 123456

5 NaN Himachal 456578

6 NaN Kerla 268535

1.5.3

City State

0 Dhule Maharashtra

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City State pincode

0 Dhule Maharashtra NaN

1 Mumbai Asam NaN

2 Nashik Bihar NaN

4 NaN Punjab 123456

5 NaN Himachal 456578

6 NaN Kerla 268535

classes Grades year

0 Math 65 2012

1 Hindi 76 2015

2 English 89 2017

3 Marathi 45 2019

4 History 90 2021

5 Chemistry 89 2022

sky temp humidity wind water forecast enjoy-sport

0 sunny warm normal strong warm same yes

1 sunny warm high strong warm same yes

2 rainy cold high strong warm change no

3 sunny warm high strong cold change yes

4 sunny cold high weak warm same no

5 sunny cold normal weak warm same yes

classes Grades year

0 Math 65 2012

1 Hindi 76 2015

2 English 89 2017

3 Marathi 45 2019

4 History 90 2021

5 Chemistry 89 2022

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0 sunny warm normal strong warm same yes

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Process finished with exit code 0