**STORE**

**Ex.No. :3b 230901039**

**Date :21-02-2025**

**AIM:**

To store and manipulate input data from dataframe to excel/csv through pandas.

**SOFTWARE USED:**

Jupyter notebook

**DESCRIPTION:**

1. Create a dataframe and store the data into a specified excel file.
2. To read two excel files and data and merge through “Append” function and store the merged data into the new Excel file.
3. Using ‘sort’ function to sort and store the resultant data into a new Excel file.
4. Read and display the CSV file.
5. List the column headings and get the length of the table data.

**PROGRAM:**

**import** pandas **as** pd

df**=**pd**.**DataFrame([[1,2,3],[4,5,6],[7,8,9]],index**=**['one','two','three'],columns**=**['a','b','c'])

print(df)

df**.**to\_excel("/Users/student/Downloads/Shyam.xlsx")

df**.**to\_excel("/Users/student/Downloads/Sundar.xlsx")

*#storing the dataframe in excel*

**import** pandas **as** pd

df**=**pd**.**DataFrame([[10,20,30],[40,50,60],[70,80,90]],index**=**['four','five','six'],columns**=**['x','y','z'])

df**.**to\_excel("/Users/student/Downloads/Sundar.xlsx",sheet\_name**=**"Sheet1")

*#overwrite data in Sundar*

df**=**pd**.**DataFrame([[6,7],[1,2]],index**=**['a','b'],columns**=**['x','y'])

df**.**to\_excel("/Users/student/Downloads/Shyam.xlsx",sheet\_name**=**"sheet-1")

*#overwrite data in Shyam*

*#append*

**import** pandas **as** pd

x**=**pd**.**read\_excel("/Users/student/Downloads/Shyam.xlsx")

y**=**pd**.**read\_excel("/Users/student/Downloads/Sundar.xlsx")

z**=**pd**.**concat([x,y])

z**.**to\_excel("/Users/student/Downloads/SS.xlsx")

*#sorting*

**import** pandas **as** pd

df**=**z**.**sort\_values(["x"])

print(df)

df**.**to\_excel("/Users/student/Downloads/SS.xlsx")

df**=**z**.**sort\_values(["y"])

print(df)

df**.**to\_excel("/Users/student/Downloads/SS.xlsx")

df**=**pd**.**read\_excel("/Users/student/Downloads/Sundar.xlsx")

print(df)

print(list(df)) *#print the column names as list*

print(format(len(df)))*#print no. of rows*

**OUTPUT:**

a b c

one 1 2 3

two 4 5 6

three 7 8 9

Unnamed: 0 x y z

1 b 1 2 NaN

0 a 6 7 NaN

0 four 10 20 30.0

1 five 40 50 60.0

2 six 70 80 90.0

Unnamed: 0 x y z

1 b 1 2 NaN

0 a 6 7 NaN

0 four 10 20 30.0

1 five 40 50 60.0

2 six 70 80 90.0

Unnamed: 0 x y z

0 four 10 20 30

1 five 40 50 60

2 six 70 80 90

['Unnamed: 0', 'x', 'y', 'z']

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**Result:**

Thus the data has been stored and manipulated through dataframe and Excel using pandas.