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EX. NO: 04

DATE : 23/03/2024

Store and Load Excel / CSV files.

AIM:

To store (save) and load data from Excel and CSV files using pandas.

PROGRAM:

```
import pandas as pd
#reading excel sheets using pandas
d=pd.read_excel("D:\jupyter 1.xlsx")
print(d)
df=pd.DataFrame(d)

#printing columns headings and shape
print('\n',df.columns)
print('\n',df.shape)

#print particular column values
print('\n',df['maths'])

#slice the table values
print('\n',df[1:10:2])

#get particular row value
print('\n',df.loc[3])

#Get particular row values through particular column identification
print('\n',df.loc[d['Roll.No']==2])

#Avg values of particular column
df=d['english']/5
print('\n',df)
```

```
   Roll.No  english  maths
0        1       99     56
1        2       94     87
2        3       76    100
3        4       99     99
4        5       89     47

 Index(['Roll.No', 'english', 'maths'], dtype='object')

 (5, 3)

 0     56
1     87
2    100
3     99
4     47
Name: maths, dtype: int64

    Roll.No  english  maths
1        2       94     87
3        4       99     99

 Roll.No     4
english    99
maths      99
Name: 3, dtype: int64

    Roll.No  english  maths
1        2       94     87

 0    19.8
1    18.8
2    15.2
3    19.8
4    17.8
Name: english, dtype: float64
```

```python
import pandas as pd

# Sample data
data = {"Name": ["Alice", "Bob", "Charlie"], "Age": [25, 30, 22]}
df = pd.DataFrame(data)

# Save to CSV file (with index)
df.to_csv("people.csv", index=True)

# Save to CSV file (without index)
df.to_csv("people_no_index.csv", index=False)

print(df)
```

```
      Name  Age
0    Alice   25
1      Bob   30
2  Charlie   22
```

RESULT :

Hence the Load and Store operation is implemented successfully.