**Lab 5: To study and implement pandas library**

1. Create a data series with marks of students : 75, 80, 79, 60[¶](http://localhost:8888/notebooks/pandas%20(1).ipynb#1.-Create-a-data-series-with-marks-of-students-:-75,-80,-79,-60)

import pandas as pd

pd.Series([75,80,79,60])

2. Create a data frame with name of students, id and marks

pd.DataFrame({

'name':['Ali','Ahmad','Rashid'],

'id':[101,102,103],

'marks':[60,70,80]

})

3. Now read the file 'data.csv' in panda

data=pd.read\_csv('data.csv')

data

4. What are the columns in the dataframe?

data.columns

5. Sort the data based on Marks obtained. Fill all the 'na' cells with 0

data=data.fillna(0)

data.sort\_values(by=['Total (100)'])

6. Display the top 10 rows

data.head(10)

7. Display the last 10 rows

data.tail(10)

8. Display only the odd rows

data.iloc[1::2]

9. Display only those students who got failed in examination

data[data.Grade=='F']

print(data)

10. Find out the basic statistical info about data

r.describe()

11. How many students got A, B, C, F?

data.groupby("Grade").count()

12. What are the mean scores for students who got A, B, C, F?

data.groupby("Grade").mean()