**Different ways of creating dataframe**

**1.Using Python Dictionary**

'day': ['1/1/2017', '1/2/2017','1/3/2017','1/4/2017','1/5/2017','1/6/2017'],

'temperature' : [32,35,28,24,32,31],

'windspeed' : [6,7,2,7,4,2],

'event' : ['Rain','Sunny','Snow','Snow','Rain','Sunny']

}

**2. using list of tuples**

('1/2/2017',32,6,'Rain'),

('1/2/2017',35,7,'Sunny'),

('1/3/2017',28,2,'Snow')

**3. using list of dictionary**

weather\_data = [

{'day':'1/1/2017','temperature':32,'windspeed':6,'event':'Rain'},

{'day':'1/2/2017','temperature':35,'windspeed':7,'event':'Sunny'},

{'day':'1/3/2017','temperature':29,'windspeed':2,'event':'Snow'},

]

**read write csv excel file**

df\_stocks=pd.DataFrame({

'tickers':['GOOGL','WMT','MSFT'],

'price':[845,65,64],

'pe':[30.37,14.26,30.97],

'eps':[27.82,4.61,2.12],

})

**Concat DataFrame**

india\_weather= pd.DataFrame ({

'city':['mumbai','delhi','banglore'],

'temperature':[32,45,30],

'humidity':[80,60,78]

})

india\_weather

us\_weather= pd.DataFrame ({

'city':['new york','chicago','orlando'],

'temperature':[21,14,35],

'humidity':[68,65,75]

})

us\_weather

temperature\_df= pd.DataFrame ({

'city':['mumbai','delhi','banglore'],

'temperature':[32,45,30],

})

temperature\_df

windspeed\_df=pd.DataFrame({

'city':['mumbai','delhi','banglore'],

'windspeed':[32,45,30],

})

windspeed\_df

**Merge DataFrame**

import pandas as pd

df1=pd.DataFrame({

'city':['new york','chicago','orlando'],

'temperature':[21,14,35],

})

df1

df2=pd.DataFrame({

'city':['new york','chicago','orlando'],

'humidity':[65,68,75],

})

df2

**Matplotlib**

days=[1,2,3,4,5,6,7]

max\_t=[32,51,52,48,47,49,46]

min\_t=[43,42,40,44,33,35,37]

avg\_t=[45,48,48,46,40,42,41]

**Bar Chart**

company=['GOOGLE','AMAZON','MSFT','FB']

revenue=[90,136,89,27]

profit=[40,2,34,12]

**Histogram**

blood\_sugar\_men=[113,85,90,150,149,88,93,115,135,80,77,82,129]

blood\_sugar\_women=[67,98,89,120,133,150,84,69,89,79,20,112,100]