In [1]:
```
import pandas as pd
```

In [2]:
```
#Creating Series
ser=pd.Series(['Mon','Tues','Wed','Thurs'])
print(ser)
```

```
0     Mon
1    Tues
2     Wed
3   Thurs
dtype: object
```

In [3]:
```
data=[1,2,3,4,5]
label=['Mon','Tues','Wed','Thurs','Fri']
ser1=pd.Series(data,label)
ser1
```

Out[3]:
```
Mon      1
Tues     2
Wed      3
Thurs    4
Fri      5
dtype: int64
```

In [6]:
```
#Series = (Data, label)
series1 = pd.Series([5,12,23,14],['Mon','Wed','Thur','Fri'])
print(series1)
print('******************************')
#Series = (Data, label)
series2 = pd.Series([15,10,3],['Mon','Thur','Tue'])
print(series2)
print('******************************')
#Arithmetic operations series
series3 = series1+series2
print(series3)
print(type(series3))
```

```
Mon      5
Wed     12
Thur    23
Fri     14
dtype: int64
******************************
Mon     15
Thur    10
Tue      3
dtype: int64
******************************
Fri      NaN
Mon     20.0
Thur    33.0
Tue      NaN
Wed      NaN
dtype: float64
<class 'pandas.core.series.Series'>
```

In [9]:
```
#Creating data frames from list
list1 = ["welcome","to","Data","science"]
label = ["w1","w2","w3","w4"]
df1 = pd.DataFrame(list1,label)
df1
```

Out[9]:

	0
w1	welcome
w2	to
w3	Data
w4	science

In [12]:
```
#Create data frames from dictionarty
index1 = ['Emp1','Emp2','Emp3','Emp4','Emp5','Emp6','Emp7','Emp8']
data = {'Name':['Anu','Anshu','Adhish','Anup','Adhin','Adhira','Adara','Adhi'],
        'Age':[37,43,28,31,28,51,53,39],
        'Location':['Chennai','Bangalore','Bangalore','Bangalore','Chennai','Bangalore','Chennai','Chennai'],
        'Department':['HR','Testing','Training','HR','HR','Dev','Testing','Testing'],
        'Salary':[40000,29000,42000,38000,27000,33000,35000,41000]}
df=pd.DataFrame(data,index1)
print(df)
df.to_csv("D:\\dataframeexample.csv")
```

	Name	Age	Location	Department	Salary
Emp1	Anu	37	Chennai	HR	40000
Emp2	Anshu	43	Bangalore	Testing	29000
Emp3	Adhish	28	Bangalore	Training	42000
Emp4	Anup	31	Bangalore	HR	38000
Emp5	Adhin	28	Chennai	HR	27000
Emp6	Adhira	51	Bangalore	Dev	33000
Emp7	Adara	53	Chennai	Testing	35000
Emp8	Adhi	39	Chennai	Testing	41000

In [14]:
```
newDf=pd.read_csv("D:\\dataframeexample.csv")
print(newDf)
```

	Unnamed: 0	Name	Age	Location	Department	Salary
0	Emp1	Anu	37	Chennai	HR	40000
1	Emp2	Anshu	43	Bangalore	Testing	29000
2	Emp3	Adhish	28	Bangalore	Training	42000
3	Emp4	Anup	31	Bangalore	HR	38000
4	Emp5	Adhin	28	Chennai	HR	27000
5	Emp6	Adhira	51	Bangalore	Dev	33000
6	Emp7	Adara	53	Chennai	Testing	35000
7	Emp8	Adhi	39	Chennai	Testing	41000

In [ ]:
```

```