In [ ]:

```
# Pandas
# instal  => pip install pandas
```

In [ ]:

```
# Series
# 1 D labeled Hetro or Homo Array(Series)
```

In [ ]:

```
# pandas vs Numpy => Numpy array is used for the implementation of Pandas data objects
```

In [1]:

```
import pandas as pd
```

In [2]:

```
pd.__version__
```

Out[2]:

```
'0.24.2'
```

In [3]:

```
# convert list into series

data1 = [1,2,3.45,70,'micky']
data1
```

Out[3]:

```
[1, 2, 3.45, 70, 'micky']
```

In [4]:

```
type(data1)
```

Out[4]:

```
list
```

In [6]:

```
# convert into series
series1 = pd.Series(data1)
series1
```

Out[6]:

```
0        1
1        2
2     3.45
3       70
4    micky
dtype: object
```

In [7]:

```
type(series1)
```

Out[7]:

```
pandas.core.series.Series
```

In [9]:

```
# Another way of creating Series

series2 = pd.Series([10,20,30,40,50])
series2
```

Out[9]:

```
0    10
1    20
2    30
3    40
4    50
dtype: int64
```

In [10]:

```
# create empty series
series3 = pd.Series([])
series3
```

Out[10]:

```
Series([], dtype: float64)
```

In [11]:

```
# creating own index value

series4 = pd.Series([10,20,30,40,50,60],index=['a','b','c','d','e','f'])
series4
```

Out[11]:

```
a    10
b    20
c    30
d    40
e    50
f    60
dtype: int64
```

In [12]:

```
# default index start from 0 ----
series5 = pd.Series([10,20,30,40,50,60])
series5
```

Out[12]:

```
0    10
1    20
2    30
3    40
4    50
5    60
dtype: int64
```

In [13]:

```
# change data type
series6 = pd.Series([10,20,30,40,50,60],index=['Harish','Suresh','Shoeb','Venkat','Wahed','
series6
```

Out[13]:

```
Harish    10
Suresh    20
Shoeb     30
Venkat    40
Wahed     50
Yogesh    60
dtype: int64
```

In [14]:

```
# change data type
series7 = pd.Series([10,20,30,40,50,60],index=['Harish','Suresh','Shoeb','Venkat','Wahed','
series7
```

Out[14]:

```
Harish    10.0
Suresh    20.0
Shoeb     30.0
Venkat    40.0
Wahed     50.0
Yogesh    60.0
dtype: float64
```