

## Creating series from list

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

```
In [10]: list_1 = [1, 2, -3, 4.5, 'indian']
print(list_1)

[1, 2, -3, 4.5, 'indian']
```

```
In [11]: series1 = pd.Series(list_1)
print(series1)

0      1
1      2
2     -3
3     4.5
4    indian
dtype: object
```

```
In [14]: #Creating Series using a different method
#List inside the series
series2 = pd.Series([1,2,3,4,5,6])
print(series2)

0      1
1      2
2      3
3      4
4      5
5      6
dtype: int64
```

```
In [20]: # We can change index to any numbers, alphabates, names etc.
series2 = pd.Series([1,2,3,4,5], index = ['a', 'b', 'c', 'd', 'e'])
print(series2)

a      1
b      2
c      3
d      4
e      5
dtype: int64
```

```
In [19]: #Index length should have equal to the number of data values, otherwise, it shows error
series2 = pd.Series([1,2,3,4,5], index = ['a', 'b', 'c'])
print(series2)

-----
ValueError                                Traceback (most recent call last)
<ipython-input-19-4fd53dc5beb8> in <module>
      1 #Index length should have equal to the number of data values, otherwise, it shows error
----> 2 series2 = pd.Series([1,2,3,4,5], index = ['a', 'b', 'c'])
      3 print(series2)

~\AppData\Local\Continuum\anaconda3\lib\site-packages\pandas\core\series.py in __init__(self, data, index, dtype, name, copy, fastpath)
    247             'Length of passed values is {val}, '
    248             'index implies {ind}'
--> 249             .format(val=len(data), ind=len(index)))
    250         except TypeError:
    251             pass

ValueError: Length of passed values is 5, index implies 3
```

```
In [21]: #Empty Series Object
empty_s = pd.Series([])
print(empty_s)

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

```
In [12]: kulfi_list = ['Chocolate', 'Bnana', 'cherry', 'strawberry']
seriesObj = pd.Series(kulfi_list)
print(seriesObj)

0      Chocolate
1         Bnana
2         cherry
3    strawberry
dtype: object
```

```
In [15]: lottery = [10,20,30,40,50,60,40]
lot_s = pd.Series(lottery)
print(lot_s)
```

```
0    10
1    20
2    30
3    40
4    50
5    60
6    40
dtype: int64
```

```
In [16]: reg = [True,False,True,True,False,True]
reg_s = pd.Series(reg)
print(reg_s)
```

```
0     True
1    False
2     True
3     True
4    False
5     True
dtype: bool
```

```
In [9]: pd.__version__
```

```
Out[9]: '0.24.2'
```

```
In [22]: # Changing data type of series
series2 = pd.Series([1,2,3,4,5], index = ['a', 'b', 'c', 'd', 'e'], dtype = float)
print(series2)
```

```
a    1.0
b    2.0
c    3.0
d    4.0
e    5.0
dtype: float64
```

```
In [24]: # Creating series from scalar values
# scalar values means single value
s3_scalar = pd.Series(2)
print(s3_scalar)
```

```
0     2
dtype: int64
```

```
In [ ]: # more data values index should be needed.
s3_scalar = pd.Series(2, index = [1,2,3,4,5])
print(s3_scalar)
```