

## **Indexing or Selecting = Slicing**

**We are trying to Select Some Elements among Group of Elements using Slicing Operation , Before we need to do INDEXING**

**1. `.loc[ ]`**

**2. `.iloc[ ]`**

**.loc[ ]**

**A .loc[ ] is a Method which is used for get a Sub-Part of a Series.**

**.loc[ Start : End ]**  
**Inc Inc**

```
import pandas as  
pd  
a=[10,20,30,40,50]  
b=pd.Series(a)  
print(b)  
# 20,30,40,50  
print(b.loc[1:3])
```

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

**.iloc[ ]**

**A .iloc[ ] is a  
Method in which  
the End Values is  
Excluded**

**.iloc[ Start : End+1 ]**  
**Inc Exclude**

**[10,20,30,40]**

```
import pandas as pd  
a=[10,20,30,40,50]  
b=pd.Series(a)  
print(b)  
print(b.iloc[1:-3])
```

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