In [18]:
```
# Creation of Series from scalar values.
import pandas as pd

df1 = pd.Series(['Apple','Mango','Banana','Pineapple','Cherry'])
print(df1)
print(df1[2])
print(df1[:-1])

df2 = pd.Series([10,20,30,40])
print(df2)
print(df2[0])
```

```
0        Apple
1        Mango
2       Banana
3    Pineapple
4       Cherry
dtype: object
Banana
0        Apple
1        Mango
2       Banana
3    Pineapple
dtype: object
0    10
1    20
2    30
3    40
dtype: int64
10
```

In [12]:
```
# indexes

df3 = pd.Series(['Apple','Mango','Banana'], index=['x','y','z'])
print(df3)
print(df3['y'])

df4 = pd.Series([10,20,30,40], index=['a','b','c','d'])
print(df4)
print(df4['c'])
```

```
x     Apple
y     Mango
z    Banana
dtype: object
Mango
a    10
b    20
c    30
d    40
dtype: int64
30
```

In [20]:
```
# Craetion of Series from NumPy arrays.

import pandas as pd
import numpy as np

n1 = np.array([10,20,30,40,50])
df5 = pd.Series(n1)
print(df5)
print(df5[0:4])
print(df1[-1:])
print(df1[-4:-1])

# numpy array reduces dtype to int32 while used explicitly it provides int64.
```

```
0    10
1    20
2    30
3    40
4    50
dtype: int32
0    10
1    20
2    30
3    40
dtype: int32
4    Cherry
dtype: object
1        Mango
2       Banana
3    Pineapple
dtype: object
```

In [8]:
```
arr1 = np.array(['Jan','Feb','Mar'])
arr2 = np.array([1000,2000,3000])

df6 = pd.Series(arr2, index=arr1)
print(df6)
```

```
Jan    1000
Feb    2000
Mar    3000
dtype: int32
```

In [9]:
```
# Creation from Dictionary.

dic = {'Jan':1000,'Feb':2000,'Mar':3000}
df7 = pd.Series(dic)
print(df7)
```

```
Jan    1000
Feb    2000
Mar    3000
dtype: int64
```

In [ ]: