## Part-2

```
In [46]:
          # print data
          print(data)
          print("\n")
          # slicing by explicit index
          print(data['a':'c'])
              0.25
         а
         b
              0.50
             0.75
         С
         d 1.00
              1.25
         е
         dtype: float64
            0.25
         а
         b
             0.50
              0.75
         dtype: float64
In [47]:
          # masking
          print(data[(data>0.3)&(data<0.8)])</pre>
         b 0.50
            0.75
         dtype: float64
In [48]:
          # fancy indexing
          data[['a','e']]
Out[48]: a 0.25
             1.25
         dtype: float64
In [49]:
          data=pd.Series(['a','b','c'],index=[1,2,3])
          data
Out[49]: 1
              b
         dtype: object
In [50]:
          # explicit index when indexing
          data[1]
Out[50]: 'a'
In [51]:
          # explicit index when indexing
          data[2]
Out[51]: 'b'
```

7 of 9

```
In [52]:
          # implicit index when slicing
          data[1:3]
Out[52]: 2 b
         dtype: object
In [53]:
          # print data
Out[53]: 1 a b
             С
         dtype: object
In [54]:
          # loc references explicit index in indexing
          data.loc[1]
Out[54]: 'a'
In [55]:
          # loc references explicit index in indexing
          data.loc[2]
Out[55]: 'b'
In [56]:
          # loc references explicit index in slicing also
          data.loc[1:3]
Out[56]: 1 a
         2
             b
         dtype: object
In [57]:
          # Print data
          data
Out[57]: 1 a
         dtype: object
In [58]:
          # iloc references implicit index in indexing
          data.iloc[1]
Out[58]: 'b'
In [59]:
          # iloc references implicit index in indexing
          data.iloc[2]
Out[59]: 'c'
```

8 of 9 15-12-2021, 17:22

Outline of some basics:

- Notebook Basics
- IPython beyond plain python
- Markdown Cells
- Rich Display System
- Custom Display logic
- Running a Secure Public Notebook Server
- How Jupyter works to run code in different languages.

You can also get this tutorial and run it on your laptop:

```
git clone https://github.com/ipython/ipython-in-depth
Install IPython and Jupyter:
```

with conda:

```
conda install ipython jupyter
```

with pip:

```
# first, always upgrade pip!
pip install --upgrade pip
pip install --upgrade ipython jupyter
```

Start the notebook in the tutorial directory:

```
cd ipython-in-depth
jupyter notebook
```

9 of 9