pandas<< series, dataframes

```
In [1]: ▶ import pandas as pd
Out[3]: 0
         1
         2
             6
             7
         dtype: int64
a= pd.Series(["A", "B", "C", "D"])
   Out[4]: 0
         2
            C
         dtype: object
a.values
   Out[5]: array(['A', 'B', 'C', 'D'], dtype=object)
a.index
   Out[6]: RangeIndex(start=0, stop=4, step=1)
In [14]: | arr= pd.Series([11,22,33,44], index=["A", "B", "C", "D"])
         arr
  Out[14]: A 11
             22
             33
         D
            44
         dtype: int64
      # Access data
Out[15]: 22
In [16]: A arr[2]
  Out[16]: 33
In []: ▶ #to get multiple values then we use
Out[22]: A
             11
         C
             33
            44
         dtype: int64
```

```
Out[24]: A
               False
           В
                True
           C
                True
           D
                True
           dtype: bool
In [ ]: ► Modify data by +,-,/,*
In [25]: ► arr-2
   Out[25]: A 9
               20
           В
           C 31
           D
              42
           dtype: int64
In [26]: ► arr+2
   Out[26]: A
               13
           В
               24
           C
               35
              46
           D
           dtype: int64
In [27]: ► arr/3
   Out[27]: A 3.666667
               7.333333
           C 11.000000
           D
              14.666667
           dtype: float64
In [28]: ▶ arr*3
   Out[28]: A
                33
           В
                66
                99
           C
              132
           dtype: int64
In [29]: ► arr%2
   Out[29]: A 1
           В
              0
           C 1
           dtype: int64
In [31]: ▶ "A" in arr
   Out[31]: True
In [32]: ▶ 1 in arr
   Out[32]: False
In [33]: ▶ import numpy as np
In [41]: | array=np.array([11,22,33,44])
           array
   Out[41]: array([11, 22, 33, 44])
```

```
pandas1 - Jupyter Notebook
```

```
In [42]: N series=pd.Series(array)
series
Out[42]: 0 11
1 22
2 33
3 44
dtype: int32
```

From dictionary to pandas series

how to add 2 different series and what is the concept behind this???

two series have different lengths