2. 4. 4. 7. 4l, supprimes)  1/2*, rev., re
5, 4, 4, 7, 4], Stype:int64)  **C2', 'r3', 'r4', 'r5', 'r6'], dtype: object')  **C5()  **AFRICHE ([[1,0],[3,4],[5,9],[7,2],[2,6]), Index: ['82', '82', '84', '85'], columns ['63', '62'])
5, 4, 4, 7, 4], Stype:int64)  **C2', 'r3', 'r4', 'r5', 'r6'], dtype: object')  **C5()  **AFRICHE ([[1,0],[3,4],[5,9],[7,2],[2,6]), Index: ['82', '82', '84', '85'], columns ['63', '62'])
"r2', 'r3', 'r4', 'r5', 'r6'], dtype='object')  nts()  arrame([[1,8],[3,4],[5,9],[7,2],[2,6]), index= ['R1', 'R2', 'R3', 'R4', 'R5'], columns=['C1', 'C2'])
"r2', 'r3', 'r4', 'r5', 'r6'], dtype='object')  nts()  arrame([[1,8],[3,4],[5,9],[7,2],[2,6]), index= ['R1', 'R2', 'R3', 'R4', 'R5'], columns=['C1', 'C2'])
"r2', 'r3', 'r4', 'r5', 'r6'], dtype='object')  nts()  arrame([[1,8],[3,4],[5,9],[7,2],[2,6]), index= ['R1', 'R2', 'R3', 'R4', 'R5'], columns=['C1', 'C2'])
"r2', 'r3', 'r4', 'r5', 'r6'], dtype='object')  nts()  arrame([[1,8],[3,4],[5,9],[7,2],[2,6]), index= ['R1', 'R2', 'R3', 'R4', 'R5'], columns=['C1', 'C2'])
"r2', 'r3', 'r4', 'r5', 'r8'], dtype='object')  nts()  arrame([[1,8],[3,4],[5,9],[7,2],[2,6]), index= ['81','82','83','84','85'], columns=['C1','C2'])
aframe([[1,8],[3,4],[5,9],[7,2],[2,6]], index=['R1','R2','R3','R4','R6'], columns=['C1','C2'])
aframe([[1,8],[3,4],[5,9],[7,2],[2,6]], index=['R1','R2','R3','R4','R6'], columns=['C1','C2'])
aFrame([[1,8],[3,4],[5,9],[7,2],[2,6]], index= ['R1','R2','R3','R4','R5'], columns=['C1','C2'])
aFrame([[1,8],[3,4],[5,9],[7,2],[2,6]], index= ['R1','R2','R3','R4','R5'], columns=['C1','C2'])
aFrame([[1,8],[3,4],[5,9],[7,2],[2,6]], index= ['R1','R2','R3','R4','R5'], columns=['C1','C2'])
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'R2', 'R3', 'R4', 'R5'], dtype='object')
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,5)
,5) 83 R4 R5
, 5)  23 R4 R5 5 7 2
7.5)  13 R4 R5  5 7 2  9 2 6
7.5)  13 R4 R5  5 7 2  9 2 6
7.5)  13 R4 R5  5 7 2  9 2 6
7.5)  13 R4 R5  5 7 2  9 2 6
7, 5)  13 R4 R5  5 7 2  9 2 6  1, axis=0)
7, 5)  13 R4 R5  5 7 2  9 2 6  1, axis=0)
7, 5)  13 R4 R5  5 7 2  9 2 6  1, axis=0)
7, 5)  13 R4 R5  5 7 2  9 2 6  1, axis=0)
7,5)  13 R4 R5  5 7 2  9 2 6  1, axis=0)
7, 5)  13 R4 R5  5 7 2  9 2 6  1, axis=0)
7, 5)  13 R4 R5  5 7 2  9 2 6  1, axis=0)
7, 5)  13 R4 R5  5 7 2  9 2 6  1, axis=0)
(, ps) 33 R4 R5 5 7 2 0 7 6 (, ps) (s=0)
(5)  12 RA RB  15 7 7 2  15 2 6  1, action()  (1)  (2)  (3)  (3)  (4)  (4)  (5)  (7)  (6)  (7)
()  1. A
(2)  13. Bat 108 15. 7. 2 16. 7. 404519)  14. 404519  15. 404519  16. 404519  17. 404519  17. 404519  18. 404519  19. 404519
() 13
() 1 CZ
(1) 1. 04 100 100 100 100 100 100 100 100 100

In [1]:

import pandas as pd
import numpy as np

**Pandas Series** 

**R3** 5 9 **R4** 7 2

**R5** 2 6

df

0 1 3 51 2 4 6

df = pd.DataFrame(data)

Name Location Age

**3** Taha Hamedan 5

df.sort\_index(axis=1)

**3** 5 Hamedan Taha

Name Location Age

**3** Taha Hamedan 5

1 Sara Theran 28

Name Location Age

**3** Taha Hamedan 5

1 Sara Theran 283 Taha Hamedan 5

1 Sara Theran 283 Taha Hamedan 5

yazd 35

Theran 28

shiraz 55

yazd Ali

Theran Sara

shiraz Reza

shiraz 55

yazd 35

yazd 35

Theran 28

shiraz 55

shiraz 55

yazd 35

yazd 35

Theran 28

2 Reza shiraz 553 Taha Hamedan 5

df.iloc[2][1]

df.iloc[1]['Age']

df.sort\_index(axis=0,ascending=True)

df.sort\_values(by='Age', ascending=False)

df.sort\_index(axis=0,ascending=False)

Out[30]: **x1 x2 x3** 

df

**0** Ali

**1** Sara

2 Reza

Out[33]: Age Location Name

**0** 35

**1** 28

**2** 55

2 Reza

**0** Ali

**0** Ali

1 Sara

2 Reza

Out[36]: Name Location Age

2 Reza

In [37]: df[df.Age < 30]

In [38]:

In [39]:

In [40]:

Out[40]: 28

Out[39]: 'shiraz'

Out[37]: Name Location Age

Out[38]: Name Location Age

1 Sara

#other example

df = pd.DataFrame( { 'x1':[1,2], 'x2':[3,4],'x3':[5,6] } )

In [29]:

In [30]:

In [31]:

In [32]:

Out[32]:

In [33]:

In [34]:

Out[34]:

In [35]:

Out[35]:

**Data Structures** 

Pandas Data Frames