```
import pandas as pd
import numpy as np
```

```
unsorted_df=pd.DataFrame(np.random.randn(10,2),index=[1,4,6,2,3,5,9,8,0,7],columns=['col2'
print (unsorted_df)
```

```
        col2      col1
   1  0.913128  0.081915
   4 -0.328863 -0.489836
   6 -1.594307 -0.593405
   2  0.528177 -0.856575
   3 -0.050915 -0.455283
   5 -1.139970 -0.674288
   9  1.474698 -1.498965
   8 -0.091276  2.011179
   0 -0.400313 -0.001199
   7 -1.110921  0.439724
```

```
unsorted_df=pd.DataFrame(np.random.randn(10,2),index=[1,2,3,4,5,6,7,8,9,0],columns=['col2'
print (unsorted_df)
```

```
        col2      col1
   1 -0.986278  0.257782
   2 -0.687429 -1.052693
   3  1.668525 -0.396087
   4  0.398526 -0.431920
   5  1.574015 -0.406583
   6  0.886396  1.362975
   7 -0.515176 -0.554104
   8  0.442157 -0.298302
   9  1.245937  1.092182
   0  0.764796  0.152566
```

```
unsorted_df = pd.DataFrame(np.random.randn(10,2),index=[1,4,6,2,3,5,9,8,0,7],columns = ['c
```

```
sorted_df=unsorted_df.sort_index()
print (sorted_df)
```

```
        col2      col1
   0  2.044425 -0.345792
   1 -1.756713 -1.376890
   2 -0.657593 -0.497028
   3 -0.771049 -0.090823
   4 -0.605273 -1.089765
   5 -0.944878 -0.284704
   6 -0.921078  1.062697
   7 -1.239318  1.110466
   8 -1.800563 -0.353022
   9 -1.579536  1.230823
```

```
unsorted_df = pd.DataFrame(np.random.randn(10,2),index=[1,4,6,2,3,5,9,8,0,7],columns = ['c
```

```
sorted_df = unsorted_df.sort_index(ascending=False)
print (sorted_df)
```

```
         col2       col1
9   1.135397  -0.075706
8  -1.854441  -0.782001
7   0.877665   2.715295
6   0.529650  -0.769114
5  -0.975184  -1.640942
4  -0.522687  -1.460191
3   0.186618   0.398267
2  -1.346799  -0.666429
1   0.772252  -0.531953
0  -2.101650  -1.018339
```

```python
unsorted_df = pd.DataFrame(np.random.randn(10,2),index=[1,4,6,2,3,5,9,8,0,7],columns = ['c

sorted_df = unsorted_df.sort_index(ascending=True)
print (sorted_df)
```

```
         col2       col1
0   0.912582   0.849074
1  -1.320151   1.854702
2   2.326984  -1.217848
3  -2.558297  -0.393853
4   0.004605  -0.874987
5   0.220866   0.508212
6  -0.587726  -0.031942
7   0.272449   3.313633
8   0.437652  -0.556858
9   0.050343   0.361540
```

```python
unsorted_df = pd.DataFrame(np.random.randn(10,2),index=[1,4,6,2,3,5,9,8,0,7],columns = ['c

sorted_df = unsorted_df.sort_index(descending=True)
print (sorted_df)
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
<ipython-input-12-bcf4566a6ed7> in <module>()
      1 unsorted_df = pd.DataFrame(np.random.randn(10,2),index=
[1,4,6,2,3,5,9,8,0,7],columns = ['col2','col1'])
      2
----> 3 sorted_df = unsorted_df.sort_index(descending=True)
      4 print (sorted_df)

TypeError: sort_index() got an unexpected keyword argument 'descending'
```

```
SEARCH STACK OVERFLOW
```

```python
unsorted_df = pd.DataFrame(np.random.randn(10,2),index=[1,3,5,7,9,2,4,6,8,0],columns = ['c

sorted_df=unsorted_df.sort_index(axis=1)

print (sorted_df)
```

```
         col1       col2
1   1.051888   1.660124
3   1.616773  -0.811375
```

```
    5  1.083622   0.228159
    7 -0.864898  -0.613640
    9  0.554985  -0.160541
    2 -1.636051  -1.944098
    4  0.744565   0.355665
    6 -1.014580   0.978450
    8 -0.625779  -0.014666
    0  0.175469  -1.270354
```

```python
unsorted_df = pd.DataFrame({'col1':[2,1,2,1],'col2':[1,3,2,6]})
sorted_df = unsorted_df.sort_values(by='col1')

print (sorted_df)
```

```
      col1  col2
   1     1     3
   3     1     6
   0     2     1
   2     2     2
```

```python
unsorted_df = pd.DataFrame({'col1':[2,1,2,1,3],'col2':[1,3,2,4,5]})
sorted_df = unsorted_df.sort_values(by=['col1','col2'])

print (sorted_df)
```

```
      col1  col2
   1     1     3
   3     1     4
   0     2     1
   2     2     2
   4     3     5
```

```python
unsorted_df = pd.DataFrame({'col1':[2,1,1,1],'col2':[1,3,2,4]})
sorted_df = unsorted_df.sort_values(by='col1' ,kind='mergesort')

print (sorted_df)
```

```
      col1  col2
   1     1     3
   2     1     2
   3     1     4
   0     2     1
```