```
FINISHED ▷ ¾ 圓 �
       %pyspark
         from pandas import Series, DataFrame
         import pandas as pd
         obj = Series([4, 7, -5, 3])
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                         -5
   3
                               3
   dtype: int64
   Took 1 sec. Last updated by anonymous at February 16 2017, 7:04:39 PM.
                                                                                                                                                                                                                                                                                                                                                                                                                                            FINISHED ▷ 💥 🗐 🕸
       from pandas import Series, DataFrame
         import pandas as pd
        obj.values
        obj.index
         obj2 = Series([4, 7, -5, 3], index=['d', 'b', 'a', 'c'])
```

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```
FINISHED ▷ ♯ 圓 ♡
from pandas import Series, DataFrame
 import pandas as pd
 obj2.index
 obj2['a']
 obj2['d'] = 6
 obj2[['c', 'a', 'd']]
 obj2
 obj2[obj2 > 0]
 obj2 * 2
     12
b
     14
    -10
      6
dtype: int64
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```

7

dtype: int64

-5

b

```
FINISHED ▷ ♯ 圓 墩
  %pyspark
   from pandas import Series, DataFrame
  import pandas as pd
   import numpy as np
   np.exp(obj2)
   'b' in obj2
   'e' in obj2
  sdata = {'Ohio': 35000, 'Texas': 71000, 'Oregon': 16000, 'Utah': 5000}
  obj3 = Series(sdata)
  Ohio
            35000
  0regon
             I Python Untitled Untitled Untitled Untitled Untitled Untitled Untitled Untitled Untitled Untitled
  Took 0 sec. Last updated by anonymous at February 16 2017, 7:12:14 PM.
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  %pyspark
   from pandas import Series, DataFrame
   import numpy as np
   states = ['California', 'Ohio', 'Oregon', 'Texas']
   obj4 = Series(sdata, index=states)
   obj4
   pd.isnull(obj4)
   pd.notnull(obj4)
  obj4.isnull()
  obj3
  Ohio
            35000
 Oregon
            16000
 Texas
            71000
  Utah
             5000
  dtype: int64
  Took 0 sec. Last updated by anonymous at February 16 2017, 7:17:21 PM. (outdated)
                                                                                FINISHED ▷ ♯ 圓 �
  %pyspark
   from pandas import Series, DataFrame
   import numpy as np
   obj4
   obj3 + obj4
   obj4.name = 'population'
   obj4.index.name = 'state'
   obj4
   obj.index = ['Bob', 'Steve', 'Jeff', 'Ryan']
   data = {'state': ['Ohio', 'Ohio', 'Nevada', 'Nevada'],
           'year': [2000, 2001, 2002, 2001, 2002],
           'pop': [1.5, 1.7, 3.6, 2.4, 2.9]}
   frame = DataFrame(data)
```

```
frame
 DataFrame(data, columns=['year', 'state', 'pop'])
 frame2 = DataFrame(data, columns=['year', 'state', 'pop', 'debt'],
                     index=['one', 'two', 'three', 'four', 'five'])
       year
              state pop debt
               Ohio 1.5 NaN
       2000
one
       2001
               Ohio 1.7 NaN
two
three
      2002
               Ohio 3.6 NaN
four
       2001 Nevada 2.4 NaN
five
       2002
             Nevada 2.9 NaN
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```

```
Zeppelin
                                                                       from pandas import Series, DataFrame
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                                                                                     default -
 frame2['state']
 frame2.year
 frame2.ix['three']
 frame2['debt'] = 16.5
 frame2
 frame2['debt'] = np.arange(5.)
 val = Series([-1.2, -1.5, -1.7], index=['two', 'four', 'five'])
 frame2['debt'] = val
 frame2
 frame2['eastern'] = frame2.state == 'Ohio'
frame2
      year
             state pop debt eastern
      2000
              Ohio 1.5
                         NaN
                                True
one
two
      2001
              Ohio 1.7
                        -1.2
                                True
three 2002
              Ohio 3.6
                         NaN
                                True
four
      2001 Nevada 2.4 -1.5
                               False
five
      2002 Nevada 2.9 -1.7
                               False
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```

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