```
In [1]: import pandas as pd
 In [3]: pd.DataFrame(randn (6,5),index=['one','two',"three",'four','five','six'])
 Out[3]:
           one -1.955029 -0.672697 2.153437 -0.809270 -1.363634
           two -1.324220 3.117920 -1.148005 -1.466555 -1.859700
          three -0.706667 0.796683 1.923052 1.412627 0.050096
           four -1.341545 0.979559 -0.910649 0.778496 1.522634
           five -0.080940 -0.000502 -0.923466 0.015622 1.223975
            six -1.310568 -1.609145 0.444770 0.024410 0.270135
 In [8]: df=pd.DataFrame(randn (6,5),index=['one','two',"three",'four','five','six'],columns=['col1','col2',"col3",'col4','col5']) # given other name to column instead of 1,2,3... # we have define 'df' name to the column instead of 1,2,3...
                                       col3
                                             col4
 Out[8]:
                             col2
           one -0.358708 -2.087290 -1.113366 -0.686718 -0.795131
           two -0.004546 1.057993 0.305177 0.931820 -0.036169
          three -0.254527 -3.607457 -0.165775 -1.425664 1.318990
           four -0.793640 -0.250715 1.792917 -1.115535 0.736387
           five 0.098026 -1.210964 0.908060 -0.560035 -0.959230
            six -0.690569 -1.323990 -0.102974 -0.989804 0.761913
In [9]: df
 Out[9]:
                    col1
                                       col3
           one -0.358708 -2.087290 -1.113366 -0.686718 -0.795131
           two -0.004546 1.057993 0.305177 0.931820 -0.036169
          three -0.254527 -3.607457 -0.165775 -1.425664 1.318990
           four -0.793640 -0.250715 1.792917 -1.115535 0.736387
           five 0.098026 -1.210964 0.908060 -0.560035 -0.959230
            six -0.690569 -1.323990 -0.102974 -0.989804 0.761913
         Conditional selections: with boolean arrays using data. With boolean indexing or logical selection, you pass an array or Series of True/False values
In [10]: df>1
                       # in boolean will get answar in true and false,here,value greater than call as'True' and lower than 1 call as 'false'
Out[10]:
                col1 col2 col3 col4 col5
           one False False False False
           two False True False False False
           five False False False False
            six False False False False
In [11]: \left| \begin{array}{c} df[df > 1] \end{array} \right| # here, wherever value is greater than '1' call as 'NaN'
                col1
                         col2
                                  col3 col4
                                               col5
           one NaN
                        NaN
                                 NaN NaN
                                               NaN
           two NaN 1.057993
                                 NaN NaN
                                 NaN NaN
           four NaN
                        NaN 1.792917 NaN
           five NaN
                       NaN
                                NaN NaN
                                NaN NaN
In [16]: # to check condition in specific column
          df[df['col3'] > 1]
                 col1 col2 col3 col4
                                                      col5
          four -0.79364 -0.250715 1.792917 -1.115535 0.736387
In [18]: df
                              col2
Out[18]:
                    col1
                                       col3
           one -0.358708 -2.087290 -1.113366 -0.686718 -0.795131
           two -0.004546 1.057993 0.305177 0.931820 -0.036169
          three -0.254527 -3.607457 -0.165775 -1.425664 1.318990
           four -0.793640 -0.250715 1.792917 -1.115535 0.736387
           five 0.098026 -1.210964 0.908060 -0.560035 -0.959230
           six -0.690569 -1.323990 -0.102974 -0.989804 0.761913
In [23]: df[df['col3']>0]
                   col1
                            col2
                                     col3
          two -0.004546 1.057993 0.305177 0.931820 -0.036169
          four -0.793640 -0.250715 1.792917 -1.115535 0.736387
          five 0.098026 -1.210964 0.908060 -0.560035 -0.959230
In [24]: df[df['col3']>0]['col4']
               0.931820
-1.115535
          two
          five -0.560035
Name: col4, dtype: float64
```

In [26]:	df[df['col3'	'col3']>0][['col4','col5']]											
Out[26]:	col4	col5											
	two 0.931820	-0.036169											
	four -1.115535	0.736387											
	five -0.560035	-0.959230											
In [29]:	df[(df['col2	']>0) & (d1	['col3']>0)]										
Out[29]:	col1	col2	col3 col4	col5									
	two -0.004546	1.057993 0	305177 0.93182	-0.036169									
In []:													
()-													
In []:													
In []:													