<pre>import numpy as np  import numpy as np  mx = np.arange(1,101).reshape(10,10) mx  t[]: array([[ 1,  2,  3,  4,  5,  6,  7,  8,  9,  10],</pre>
[ 71, 72, 73, 74, 75, 76, 77, 78, 79, 80],         [ 81, 82, 83, 84, 85, 86, 87, 88, 89, 90],         [ 91, 92, 93, 94, 95, 96, 97, 98, 99, 100]])  [ ]: ## Access specific value from matrix using index         mx[0,0]  t[ ]: ## Dimension type         mx[0,0].ndim  t[ ]: 0
<pre>[]: ## Print specific row or column mx[0]  t[]: array([1, 2, 3, 4, 5, 6, 7, 8, 9, 10])  []: mx[:,0]  t[]: array([1, 11, 21, 31, 41, 51, 61, 71, 81, 91])</pre>
<pre>mx[:,0:1]  t[]: array([[1],</pre>
<pre>t[]: mx  t[]: array([[ 1,  2,  3,  4,  5,  6,  7,  8,  9,  10],</pre>
[ 61, 62, 63, 64, 65, 66, 67, 68, 69, 70],
<pre>t[]:</pre>
[13, 64], [73, 74], [83, 84], [93, 94]])  [1: ## size in byte mx.itemsize  t[]: 4  [1: mx.dtype
Python Numpy Conctination and Split  []: import numpy as np  []: m_1 = np.arange(1,17).reshape(4,4) m_2 = np.arange(17,33).reshape(4,4)
[]: print(m_1, m_2)  [[1 2 3 4]         [5 6 7 8]         [9 10 11 12]         [13 14 15 16]] [[17 18 19 20]         [21 22 23 24]         [25 26 27 28]         [29 30 31 32]]
list1=[2,4,5,6]
[26, 28, 30, 32], [34, 36, 38, 40], [42, 44, 46, 48]])  []: np.concatenate((m_1, m_2))  t[]: array([[1, 2, 3, 4], [5, 6, 7, 8], [9, 10, 11, 12], [13, 14, 15, 16], [17, 18, 19, 20], [21, 22, 23, 24], [25, 26, 27, 28],
[29, 30, 31, 32]])  [ ]:  ## Column vise Concat
t[]: array([[ 1,  2,  3,  4],
<pre>t[]: array([[1, 2, 3, 4, 17, 18, 19, 20],</pre>
<pre>Split Array  [ ]:</pre>
## Original Array m_1  t[]: array([[ 1,  2,  3,  4],
<pre>[]: list1[0]  t[]: array([[1, 2, 3, 4],</pre>
t[]: array([[1, 2, 3, 4],
[13, 14]]), array([[3, 4],
[]: import numpy as np  []: a=np.arange(1,101) a  t[]: array([ 1,  2,  3,  4,  5,  6,  7,  8,  9,  10,  11,  12,  13,  14,  15,  16,  17,  18,  19,  20,  21,  22,  23,  24,  25,  26,  27,  28,  29,  30,  31,  32,  33,  34,  35,  36,  37,  38,  39,  40,  41,  42,  43,  44,  45,  46,  47,  48,  49,  50,  51,  52,  53,  54,  55,  56,  57,  58,  59,  60,  61,  62,  63,  64,  65,
66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100])  []: a=a.reshape(10,10)  []: a.ndim  t[]: 2
t[]: array([[ 1,  2,  3,  4,  5,  6,  7,  8,  9,  10],
<pre>[ ]: # b=np.array(a[1:4,1:4]) # b  [ ]: b=a[1:4,1:4] b  t[ ]: array([[12, 13, 14],</pre>
c t[]: array([[ 60, 65, 70],
array([[ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10],
<pre>t[]: 48.43  []: a[1:4,1:4]=b a  t[]: array([[ 1,</pre>
[ 71, 72, 73, 74, 75, 76, 77, 78, 79, 80],
<pre>[ ]: a.put  NameError</pre>

Python Numpy Array Slicing