

In [1]:

```
import numpy as np
```

In [9]:

```
a=[4,1,3,5,6]
ar=np.array(a)
print(ar)
print(type(ar))

[4 1 3 5 6]
<class 'numpy.ndarray'>
```

In [11]:

```
print(ar.shape)

(5,)
```

In [10]:

```
print(ar[1])
print(ar[0])

1
4
```

In [13]:

```
print(ar.reshape(1,5))
print(ar.reshape(5,1))

[[4 1 3 5 6]]
[[4]
 [1]
 [3]
 [5]
 [6]]
```

In [15]:

```
ar1=ar.reshape(1,5)
ar2=ar.reshape(5,1)
print(ar1.shape)
print(ar2.shape)

(1, 5)
(5, 1)
```

In [19]:

```
b=[5,4,3]
c=[9,8,7]
d=[13,12,11]
ar3=np.array([b,c,d])
print(type(ar3))
print(ar3)
print(ar3.shape)

<class 'numpy.ndarray'>
[[ 5  4  3]
 [ 9  8  7]
 [13 12 11]]
(3, 3)
```

In [21]:

```
print(ar3.reshape(1,9))
```

```
print(ar3.reshape(9,1))
```

```
[[ 5  4  3  9  8  7 13 12 11]]  
[[ 5]  
 [ 4]  
 [ 3]  
 [ 9]  
 [ 8]  
 [ 7]  
[13]  
[12]  
[11]]
```

In []: