In [1]:
```
print("hello world")
```

```
hello world
```

In [2]:
```
import numpy as np
```

In [17]:
```
list=[1,2,3,4]
sample_array = np.array(list)
print("list in python : ", list)
print("Numpy Array in python :", sample_array)
```

```
list in python :  [1, 2, 3, 4]
Numpy Array in python : [1 2 3 4]
```

In [19]:
```
print(type(list))
print(type(sample_array))
```

```
<class 'list'>
<class 'numpy.ndarray'>
```

In [23]:
```
list_1 = [1, 2, 3, 4]
list_2 = [5, 6, 7, 8]
list_3 = [9, 10, 11, 12]
sample_array = np.array([list_1,
                         list_2,
                         list_3])
print("Numpy multi dimensional array in python\n", sample_array)
```

```
Numpy multi dimensional array in python
 [[ 1  2  3  4]
 [ 5  6  7  8]
 [ 9 10 11 12]]
```

In [24]:
```
list_1 = [1, 2, 3, 4]
list_2 = [5, 6, 7, 8]
list_3 = [9, 10, 11, 12]
sample_array = np.array([list_1,
                         list_2,
                         list_3])
print("Numpy array :",)
print(sample_array)
print("Shape of the array :", sample_array.shape)
```

```
Numpy array :
[[ 1  2  3  4]
 [ 5  6  7  8]
 [ 9 10 11 12]]
Shape of the array : (3, 4)
```

In [7]:
```
import numpy as np
list_1 = [1, 2, 3]
list_2 = [4, 5, 6]
list_3 = [7, 8, 9]
list_4 = [10, 11, 12]
sample_array = np.array([list_1,
                         list_2,
                         list_3,
                         list_4])
print("shape of the array :", sample_array.shape)
```

```
shape of the array : (4, 3)
```

In [0]:
```
```