In [1]:
```
import numpy as np
```

In [2]:
```
a=np.array([1,2,3])
```

In [4]:
```
print(a)
```

```
[1 2 3]
```

In [11]:
```
b=np.array([[1,2,3],[4,5,6]])
print(b)
```

```
[[1 2 3]
 [4 5 6]]
```

In [12]:
```
#getdimension
print(b.ndim)
```

```
2
```

In [14]:
```
#getShape
print(b.shape)
```

```
(2, 3)
```

In [16]:
```
#get dtype
print(b.dtype)
```

```
int32
```

In [22]:
```
#change the dtype in numpy
c=np.array([1,2,3],dtype="int16")
print(c)
print(c.dtype)
print(c.itemsize)
```

```
[1 2 3]
int16
2
```

In [21]:
```
d=np.array([1,2,3,4],dtype="int16")
print(d.nbytes)
print(d.size*d.itemsize)
```

```
8
8
```

In [23]:
```
e=np.array([1.0,2.0])
print(e.dtype)
print(e.nbytes)
print(e.size)
print(e.itemsize)
```

```
float64
16
2
8
```

In [24]:
```
e=np.array([1,2])
print(e.dtype)
print(e.nbytes)
```

```
print(e.size)
print(e.itemsize)
```

```
int32
8
2
4
```

In [ ]: