In [1]:
```
a = [2,3,4,5,7,]
type(a)
```

Out[1]:
```
list
```

In [1]:
```
b = [1,2,4,5,True,(1,2),"Seema",{2,3}]
type(b)
```

Out[1]:
```
list
```

In [5]:
```
import numpy
```

In [2]:
```
#np -> standard
#natplotlib.pyplot  as plt mt
import numpy as np
np.__version__
```

Out[2]:
```
'1.25.2'
```

In [3]:
```
arr0 = np.array(5)
```

In [5]:
```
print(arr0)
```

```
5
```

In [6]:
```
type(arr0)
```

Out[6]:
```
numpy.ndarray
```

In [7]:
```
#ndim -> no of dimension
arr0.ndim
```

Out[7]:
```
0
```

In [8]:
```
arr1 = np.array([5,5,2,3,4.5])
print(arr1)
```

```
[5.  5.  2.  3.  4.5]
```

In [9]:
```
type(arr1)
```

Out[9]:
```
numpy.ndarray
```

In [10]:
```
arr1.ndim
```

Out[10]:
```
1
```

In [11]:
```
a1 = np.array([3,6,4,1,""])
print(a1)
type(a1)
print(type(a1))
print(a1.ndim)
```

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

In [12]:
```
a3 = np.array([7,9,5,8,4,3,5])
print(a3)
```

```
[7 9 5 8 4 3 5]
```

In [13]:
```
arr2 = np.array([
    [5,6,4],
    [2,4,7]
])
arr2.ndim
```

Out[13]: 2

In [14]:
```
arr3 = np.array(
[
    [9,8]
])
arr3.ndim
```

Out[14]: 2

In [17]:
```
arr4 = np.array(
    [
        [
            [6,4,5],[4,5,2],[5,5,2],
        ]
    ]
)
arr4.ndim
```

Out[17]: 3