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

In [3]:
```
np.__version__
```

Out[3]:
```
'1.26.4'
```

In [5]:
```
import sys
sys.version
```

Out[5]:
```
'3.12.4 | packaged by Anaconda, Inc. | (main, Jun 18 2024, 15:03:56) [MSC v.192
9 64 bit (AMD64)]'
```

In [7]:
```
# creating Arrays
```

In [9]:
```
my_list = [0,1,2,3,4,5]
my_list
```

Out[9]:
```
[0, 1, 2, 3, 4, 5]
```

In [11]:
```
type(my_list)
```

Out[11]:
```
list
```

In [13]:
```
# list to array
```

In [17]:
```
# !pip install numpy
```

In [19]:
```
arr =  np.array(my_list)
```

In [21]:
```
arr
```

Out[21]:
```
array([0, 1, 2, 3, 4, 5])
```

In [23]:
```
type(arr)
```

Out[23]:
```
numpy.ndarray
```

In [25]:
```
type(my_list)
```

Out[25]:
```
list
```

In [29]:
```
# np. # we learn  imporant function
```

In [31]:
```
np.arange(15)
```

Out[31]:
```
array([ 0,  1,  2,  3,  4,  5,  6,  7,  8,  9, 10, 11, 12, 13, 14])
```

In [33]:
```
np.arange(3.0)
```

Out[33]:
```
array([0., 1., 2.])
```

In [35]:
```
np.arange(10)
```

Out[35]:
```
array([0, 1, 2, 3, 4, 5, 6, 7, 8, 9])
```

In [37]:
```
np.arange(0,5)
```

Out[37]:
```
array([0, 1, 2, 3, 4])
```

In [39]:
```
np.arange(10,20)
```

Out[39]:
```
array([10, 11, 12, 13, 14, 15, 16, 17, 18, 19])
```

In [41]:
```
np.arange(20,10)
```

Out[41]:
```
array([], dtype=int32)
```

In [ ]: