In [4]:
```
import numpy as np
list = [23,34,45]
array = np.array(list)
array
```

Out[4]:
```
array([23, 34, 45])
```

In [5]:
```
import numpy as np
array_2d = [[23,34,67],[20,76,77],[11,34,98]]
print(array_2d)
```

```
[[23, 34, 67], [20, 76, 77], [11, 34, 98]]
```

In [7]:
```
arr = np.array(array_2d)
arr
```

Out[7]:
```
array([[23, 34, 67],
       [20, 76, 77],
       [11, 34, 98]])
```

In [ ]:

In [8]:
```
np.arange(1,10,2)
```

Out[8]:
```
array([1, 3, 5, 7, 9])
```

In [12]:
```
np.linspace(20,30,10)
```

Out[12]:
```
array([20.        , 21.11111111, 22.22222222, 23.33333333, 24.44444444,
       25.55555556, 26.66666667, 27.77777778, 28.88888889, 30.        ])
```

In [13]:
```
np.eye(4)
```

Out[13]:
```
array([[1., 0., 0., 0.],
       [0., 1., 0., 0.],
       [0., 0., 1., 0.],
       [0., 0., 0., 1.]])
```

In [ ]:
```
#random numbers
```

In [ ]:
```
#we want the uniformly ditributed numbers
```

In [14]:
```
np.random.rand(2)
```

Out[14]:
```
array([0.93795786, 0.12222213])
```

In [26]:
```
#normally distributed numbers
np.random.randn(3,3) # we will get the 3x3 matrix
np.random.randn(2)
```

Out[26]:
```
array([-0.95693137, -1.04007666])
```

In [18]:
```
#if we want the interger type of random number that time we have to use the randin
np.random.randint(20,30)
#here we got the random number inbetween the 20 to 30
```

Out[18]:
```
21
```

In [21]:
```
#in that way we can get the 10 numbers inbetween the 20 to 40 .
import numpy as np
np.random.randint(20,40,10)
```

Out[21]:
```
array([32, 39, 26, 35, 36, 26, 28, 23, 21, 37])
```

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]: