```
In [11]: import numpy as np
In [12]: #creation of array in numpy
         np.array([1,2,3,4,5,6,7,8,9])
Out[12]: array([1, 2, 3, 4, 5, 6, 7, 8, 9])
In [13]: #creation of zero array
         np.zeros(10)
Out[13]: array([0., 0., 0., 0., 0., 0., 0., 0., 0., 0.])
In [15]: #creation of zero array with integer data type
         np.zeros(10,dtype="int")
Out[15]: array([0, 0, 0, 0, 0, 0, 0, 0, 0])
In [19]: #creation of array with only 1s
         np.ones((3,3),dtype="int")
Out[19]: array([[1, 1, 1],
                 [1, 1, 1],
                 [1, 1, 1]])
In [20]: #creation of array for a range of values
         np.arange(0,20,2)
Out[20]: array([ 0, 2, 4, 6, 8, 10, 12, 14, 16, 18])
In [21]: #creation of identity matrix
         np.eye(3,3,dtype="int")
Out[21]: array([[1, 0, 0],
                 [0, 1, 0],
                [0, 0, 1]])
In [25]: #creation of array with evenly spaced numbers for a given range
         np.linspace(0,10,5)
Out[25]: array([ 0. , 2.5, 5. , 7.5, 10. ])
In [26]: #array with random values form 0 to 1
         np.random.random((3,5))
Out[26]: array([[0.90743513, 0.43969692, 0.61781948, 0.26310202, 0.14128491],
                 [0.07880581, 0.62634911, 0.32368031, 0.05196832, 0.44140221],
                 [0.91542443, 0.24905001, 0.60565067, 0.36000657, 0.20335392]])
In [34]: #array with constant value
         np.full((5,5),3.14)
Out[34]: array([[3.14, 3.14, 3.14, 3.14, 3.14],
                 [3.14, 3.14, 3.14, 3.14, 3.14],
                 [3.14, 3.14, 3.14, 3.14, 3.14],
                 [3.14, 3.14, 3.14, 3.14, 3.14],
                [3.14, 3.14, 3.14, 3.14, 3.14]])
In [35]: #upcasting(one float data type makes other integer data types to float)
         np.array([1,2,3,31.4])
Out[35]: array([ 1. , 2. , 3. , 31.4])
In [41]: #random array whose values has mean 0 and standard deviation 1
         np.random.normal(0,1,(3,5))
Out[41]: array([[-1.43802123, 0.90581797, -1.02755601, 1.40104468, -0.15417904],
                [-0.93908947, 1.61836108, -0.11374828, -0.52908785, -1.54104079], [ 2.30867719, 0.38021905, 0.59099245, 0.99488238, 1.06950177]])
```