import numpy as np

one\_d = np.array([1, 2, 3, 4, 5])  
one\_d

array([1, 2, 3, 4, 5])

two\_d = np.array([[1, 2, 3, 4, 5], [6, 7, 8, 9, 10]])  
two\_d

array([[ 1, 2, 3, 4, 5],  
 [ 6, 7, 8, 9, 10]])

np.ones(5)

array([1., 1., 1., 1., 1.])

np.zeros(5)

array([0., 0., 0., 0., 0.])

[np.random.randint(1, 10) for i in range(5)]

[8, 5, 1, 5, 9]

x = np.arange(25).reshape((5,5)) + 1  
np.diag(np.diag(x))

array([[ 1, 0, 0, 0, 0],  
 [ 0, 7, 0, 0, 0],  
 [ 0, 0, 13, 0, 0],  
 [ 0, 0, 0, 19, 0],  
 [ 0, 0, 0, 0, 25]])