Dimension	Array Creation print(a)	Check Dimension print(a.ndim)	Check Shape print(a.shape) (layer X Row X Col)	Check Size print(a.size)
0D	a = np.array(42) 42	0	()	1
1D	a = np.array([42]) OR a = np.array((42,)) [42]	1	(1,)	1
1D	a = np.array([1, 2, 3, 4, 5]) OR a = np.array((1, 2, 3, 4, 5)) [1 2 3 4 5]	1	(5,)	5
2D	a = np.array(((1, 2, 3), (4, 5, 6))) OR a = np.array([[1, 2, 3], [4, 5, 6]]) [[1 2 3] [4 5 6]]	2	(2,3)	6
3D	a = np.array((((1, 2, 3), (4, 5, 6)), ((1, 2, 3), (4, 5, 6)))) OR a = np.array([[[1, 2, 3], [4, 5, 6]], [[1, 2, 3], [4, 5, 6]]]) [[[1 2 3] [4 5 6]] [[1 2 3] [4 5 6]]]	3	(2, 2, 3)	12

3D	a = np.array((((1, 2, 3), (4, 5, 6)), ((1, 2, 3), (4, 5, 6)),((1, 2, 3), (4, 5, 6)))) OR a = np.array([[[1, 2, 3], [4, 5, 6]], [[1, 2, 3], [4, 5, 6]],[[1, 2, 3], [4, 5, 6]]]) [[[1 2 3] [4 5 6]] [[1 2 3] [4 5 6]] [[1 2 3] [4 5 6]]]	3	(3, 2, 3)	18
3D	a = np.array((((0, 1, 2), (3, 4, 5), (6, 7, 8)), ((9, 10, 11), (12, 13, 14), (15, 16, 17)), ((18, 19, 20), (21, 22, 23), (24, 25, 26)))) OR a = np.array([[[0, 1, 2], [3, 4, 5], [6, 7, 8]], [[9, 10, 11], [12, 13, 14], [15, 16, 17]], [[18, 19, 20], [21, 22, 23], [24, 25, 26]]])	3	(3, 3, 3)	27

	[[[0 1 2]
	  [3 4 5]
	  [6 7 8]]
	
	 [[9 10 11]
	  [12 13 14]
	  [15 16 17]]
	
	 [[18 19 20]
	  [21 22 23]
	  [24 25 26]]]			

4D	a = np.array([1, 2, 3, 4], ndmin=4) [[[[1 2 3 4]]]]	4	(1, 1, 1, 4)	4
4D	a = np.array([[[1, 2, 3], [4, 5, 6]]],ndmin=4) [[[[1 2 3] [4 5 6]]]]	4	(1, 1, 2, 3)	6

4D	a = np.array([[[1, 2, 3], [4, 5, 6]], [[1, 2, 3], [4, 5, 6]],[[1, 2, 3], [4, 5, 6]]],ndmin=4)
	
	[[[[1 2 3]
	  [4 5 6]]
	
	  [[1 2 3]
	  [4 5 6]]
	
	  [[1 2 3]
	  [4 5 6]]]]
		4	(1, 3, 2, 3)	18

5D	a = np.array([[[1, 2, 3], [4, 5, 6]]],ndmin=5) [[[[[1 2 3] [4 5 6]]]]]	5	(1, 1, 1, 2, 3)	6
10D	a = np.array([1, 2, 3, 4], ndmin=10) [[[[[[[[[[1 2 3 4]]]]]]]]]]	10	(1, 1, 1, 1, 1, 1, 1, 1, 1, 4)	4