## MANISA CELAL BAYAR UNIVERSITY - DEPARTMENT OF COMPUTER ENGINEERING QUIZ 02 FOR NUMERICAL ANALYSIS FOR COMPUTER ENGINEERS

Student Id: Name Surname: Signature:

## Questions

<pre>1. What is the correct way to create a NumPy array? ( ) np.list([1, 2, 3]) ( ) np([1, 2, 3]) ( ) np.array([1, 2, 3]) ( ) np(array([1, 2, 3]))</pre>	<pre>6. What is the output of the code below? n_1 = np.array([1, 2, 3]) n_2 = np.array([4, 5, 6]) n_3 = np.array([7, 8, 9]) print(np.array([n_1, n_2, n_3]).ndim)  Your answer:</pre>
<pre>2. Which of the following arrays is a 2-D array? ( ) [3, 5] ( ) [[3], [5]] ( ) [{1, 3}, {5, 7}] ( ) [2]</pre>	7. What is the output of the code below?  n_1 = np.array([1, 2, 3])  n_2 = np.array([4, 5, 6])  n_3 = np.array([7, 8, 9])  print(np.array([n_1 + n_2 + n_3]).shape)  Your answer:
<pre>3. What is the correct way to print 5 from the array given below? a = np.array([[1, 2], [3, 4], [5, 6]]) ( ) print(a[3, 1]) ( ) print(a[2, 0]) ( ) print(a[1, 2]) ( ) print(a[1, 3])</pre>	<pre>8. Which of the following is created with the code given below? np.array([[1, 2, 3], [4, 5, 6]]) ( ) 1-d array of shape 6 x 1 ( ) 2-d array of shape 2 x 3 ( ) 3-d array of shape 3 x 2 ( ) 3-d array of shape 2 x 3</pre>
<pre>4. What is the correct way to print every other item from the array given below? a = np.arange(5) ( ) print(a[1:3:5]) ( ) print(a[::2]) ( ) print(a[1:5]) ( ) print(a[0:2:4]</pre>	<pre>9. What is the output of the code below? print(np.arange(10).reshape(2, -1))</pre>
<ul><li>5. What does the shape mean of a NumPy array?</li><li>( ) Number of columns</li><li>( ) Total number of items</li><li>( ) Number of items in each dimension</li><li>( ) Number of rows</li></ul>	10. What is the output of the code below? Print(np.array([0.5, 1.5, 2.5]).dtype)

Assoc. Prof. Dr. Bora Canbula

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