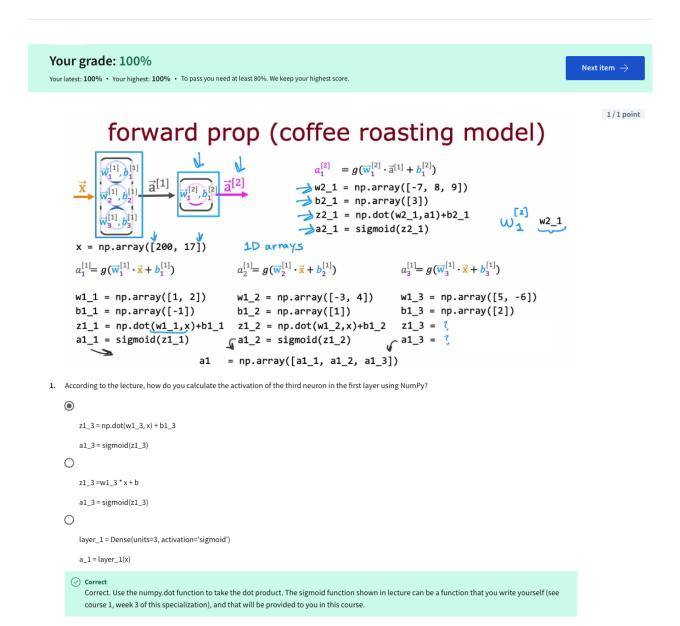
AdvancedLearningAlgorithms - WEEK 1 - QUIZ 4

Link: AdvancedLearningAlgorithms - WEEK 1 - QUIZ 4

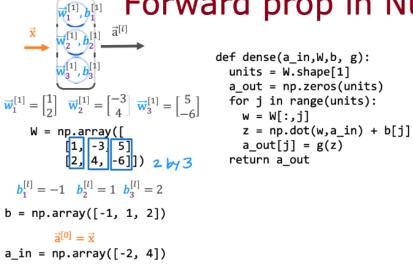


Forward prop in NumPy

- 2. According to the lecture, when coding up the numpy array W, where would you place the w parameters for each neuron?
 - O In the rows of W.
 - In the columns of W.
 - **⊘** Correct

Correct. The w parameters of neuron 1 are in column 1. The w parameters of neuron 2 are in column 2, and so on.

Forward prop in NumPy



- 3. For the code above in the "dense" function that defines a single layer of neurons, how many times does the code go through the "for loop"? Note that W has 2 rows and 3 columns.
 - O 5 times
 - 6 times
 - 2 times
 - 3 times
 - **⊘** Correct

Yes! For each neuron in the layer, there is one column in the numpy array W. The for loop calculates the activation value for each neuron. So if there are 3 columns in W, there are 3 neurons in the dense layer, and therefore the for loop goes through 3 iterations (one for each neuron).