## Quiz\_C4W3

Congratulations! You passed!

**⊘** Correct

	Grade received 100%	Latest Submission Grade 100%	<b>To pass</b> 80% or higher		
1	. If X is the standard notati	on for the input to an RNN, v	what are the standard notations for the o	outputs	
	Y H Y(hat) and H H(hat) and Y				
	<b>⊘</b> Correct				
2.	What is a sequence to ve	ctor if an RNN has 30 cells	numbered 0 to 29		
	The Y(hat) for the second cell				
	The Y(hat) for the last cell				
	The total Y(hat) for all cells				
	The average Y(hat) for	or all 30 cells			
	<b>Orrect</b>				
3.	What does a Lambda lay	er in a neural network do?			
	Changes the shape of the input or output data				
	There are no Lambda layers in a neural network				
	Pauses training without a callback				
	Allows you to execute arbitrary code while training				

4.	What does the axis parameter of tf.expand_dims do?
	O Defines the dimension index to remove when you expand the tensor
	O Defines if the tensor is X or Y
	Defines the dimension index at which you will expand the shape of the tensor
	Oefines the axis around which to expand the dimensions
	<b>⊘</b> Correct
5.	A new loss function was introduced in this module, named after a famous statistician. What is it called?
	○ Hubble loss
	O Hyatt loss
	Huber loss
	○ Hawking loss
6.	What's the primary difference between a simple RNN and an LSTM
	C LSTMs have a single output, RNNs have multiple
	O In addition to the H output, RNNs have a cell state that runs across all cells
	In addition to the H output, LSTMs have a cell state that runs across all cells
	C LSTMs have multiple outputs, RNNs have a single one
	<b>⊘</b> Correct
7.	If you want to clear out all temporary variables that tensorflow might have from previous sessions, what code do you run?
	tf.keras.backend.clear_session()
	tf.keras.clear_session
	tf.cache.backend.clear_session()
	<pre>tf.cache.clear_session()</pre>
	○ Correct

ras.layers.Bidirectional(tf.keras.layers.LSTM(32)),			
tf.keras.layers.Bidirectional(tf.keras.layers.LSTM(32)),			
tf.keras.layers.Dense(1),			
O Your model will fail because you need return_sequences=True after each LSTM layer			
Your model will fail because you need return_sequences=True after the first LSTM layer			
Your model will fail because you have the same number of cells in each LSTM			
O Your model will compile and run correctly			
<b>⊘</b> Correct			

8. What happens if you define a neural network with these two layers?