1.	What are the names of the two functions which are part of the built in solution for training a model in TensorFlow and Keras?
	model.compile() and model.fit()
	model.structure() and model.compute()
	omodel.configure() and model.map()
	omodel.build() and model.train()
2.	With regards to the loss function, the derivative that gives you the gradient points away from the minimum loss value, but you can still use it for direction by adding the gradient value to your weight, instead of subtracting from it.
	○ True
	False
	 Correct Correct! You subtract the gradient value from your weights, instead of adding it.

Grade received 100% **Latest Submission Grade** 100% **To pass** 80% or higher

Congratulations! You passed!

Go to next item

3.	During training one of the parameters which you have to set is the <i>Learning Rate</i> . Which of the following are true statement(s) for <i>Learning Rate</i> ? Check all that are true.	1/1 point
	✓ With a smaller learning rate (0.0001 as opposed to 0.1), the update to the weight is smaller, and will take more iterations to minimize the loss.	
	A larger learning rate (0.1 as opposed to 0.0001) leads to a bigger update and reaches the minimum loss with fewer iterations, so a larger learning rate is better.	
	☐ It defines the direction in which we should jump while finding the minimum loss value	
	It defines how big a step to take in the given direction during the update step.	
	○ Correct Correct!	
4.	For creating your own custom training loop, arrange the following steps in the correct order for each training batch:	1/1 point
	Accumulate accuracy metric	
	2. Calculate loss	
	3. Calculate gradients of loss with respect to the model trainable weights	
	4. Calculate logits	
	5. Apply gradients on model using optimizer	
	2, 1, 3, 4, 5	
	4, 2, 3, 5, 1	
	O 4, 1, 5, 2, 3	
	2,4,5,3,1	
	○ Correct Correct!	

```
def apply_gradient(optimizer, model, x, y):
      with tf.GradientTape() as tape:
         loss_value, logits = # some code for setting up these values
      gradients = tape.gradient(loss_value, model.trainable_weights)
      # code for optimizing
      return loss_value, logits
   Which of the following lines of code performs optimization (should appear where you see the comment "#
   code for optimizing"?
   optimizer.apply_gradients(zip(gradients, model.trainable_weights))
   Optimizer = apply_gradients(zip(gradients, model.trainable_weights))
   Optimizer = apply_gradients(gradients, model.trainable_weights)
   optimizer.apply_gradients(gradients, model.trainable_weights)
    ✓ Correct
        Correct!
6. Metrics in Keras can only be called as functions and not instantiated as Classes.
                                                                                                   1/1 point
   ○ True
   False
    ✓ Correct
        Correct! They can be instantiated as Class as well.
7. Which of the following is the correct syntax for querying the current value of metric for display?
                                                                                                   1/1 point
   metric.get_state
   metric.state

  metric.get_result

   metric.result
    ✓ Correct
        Correct!
```