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Graded Quiz: Test Your Project Understanding

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1. Assuming X has 3 dimensions: (10000, 30, 30). Is the following operation valid?

1 / 1 point

```
1 import numpy as np
2
3 X = np.reshape(X, (X.shape[0], X.shape[1]*X.shape[2]))
```

- ☒ Yes
☐ No

✓ **Correct**
Correct! The resulting shape is going to be (10000, 900)

2. Which of the following can be used to get learning rate of an optimizer? Assume that the optimizer has a learning rate parameter, and the model is called "model".

1 / 1 point

- ☐

```
1 learning_rate = tf.keras.optimizers.lr
```


☒

```
1 learning_rate = tf.keras.backend.get_value(model.optimizer.lr)
```

✓ **Correct**
Correct! This is how we obtained the learning rate value in the custom callback.

3. Which of the following functions are available in Keras Callback class? Select all that apply:

1 / 1 point

☒ on_train_begin

✓ **Correct**
Correct.

☒ on_epoch_begin

✓ **Correct**
Correct.

☒ on_train_end

✓ **Correct**
Correct.

☒ on_epoch_end

✓ **Correct**
Correct.

4. Which of the following functions are available in Keras Callback class, and get the "logs" passed to them during the training. The "logs" argument is a dictionary with training metrics like "loss" and "val_loss" etc.

1 / 1 point

☒ on_train_end

✓ **Correct**
Correct.

☒ on_train_begin

✓ **Correct**
Correct.

☒ on_epoch_begin

✓ **Correct**
Correct.

☒ on_epoch_end

✓ **Correct**
Correct

5. Given the following code:

1 / 1 point

```
1 model.fit([
2     x, y,
3     epochs=10,
4     callbacks=[CustomCallback()]
5 ])
```

Which of the following is correct?

- ☒ The code will work fine.
- ☐ The code will not work. The "CustomCallback" should be instantiated outside "fit" method.

✓ **Correct**
Correct! It does not matter if the callback is instantiated inside or outside the "fit" method.