✓ **Congratulations! You passed!**
TO PASS 80% or higher

Keep Learning

GRADE
100%

Week 4 Quiz

LATEST SUBMISSION GRADE

100%

1. The diagram for traditional programming had Rules and Data In, but what came out?   1 / 1 point

   ⦿ Answers
   ◯ Binary
   ◯ Machine Learning
   ◯ Bugs

   ✓ Correct

2. Why does the DNN for Fashion MNIST have 10 output neurons?   1 / 1 point

   ◯ To make it train 10x faster
   ◯ To make it classify 10x faster
   ◯ Purely Arbitrary
   ⦿ The dataset has 10 classes

   ✓ Correct

3. What is a Convolution?   1 / 1 point

   ◯ A technique to make images smaller
   ◯ A technique to make images larger
   ⦿ A technique to extract features from an image
   ◯ A technique to remove unwanted images

   ✓ Correct

4. Applying Convolutions on top of a DNN will have what impact on training?   1 / 1 point

   ◯ It will be slower
   ◯ It will be faster
   ◯ There will be no impact
   ⦿ It depends on many factors. It might make your training faster or slower, and a poorly designed Convolutional layer may even be less efficient than a plain DNN!

   ✓ Correct

5. What method on an ImageGenerator is used to normalize the image?   1 / 1 point

   ◯ normalize
   ◯ flatten
   ◯ rezize()
   ⦿ rescale

   ✓ Correct

6. When using Image Augmentation with the ImageDataGenerator, what happens to your raw image data on-disk. **1 / 1 point**

○ A copy will be made, and the copies are augmented

○ A copy will be made, and the originals will be augmented

◉ Nothing

○ The images will be edited on disk, so be sure to have a backup

> ✓ **Correct**

7. Can you use Image augmentation with Transfer Learning? **1 / 1 point**

○ No - because the layers are frozen so they can't be augmented

◉ Yes. It's pre-trained layers that are frozen. So you can augment your images as you train the bottom layers of the DNN with them

> ✓ **Correct**

8. When training for multiple classes what is the Class Mode for Image Augmentation? **1 / 1 point**

○ class_mode='multiple'

○ class_mode='non_binary'

◉ class_mode='categorical'

○ class_mode='all'

> ✓ **Correct**

○ A copy will be made, and the copies are augmented

○ A copy will be made, and the originals will be augmented

◉ Nothing

○ The images will be edited on disk, so be sure to have a backup