Week 4 Quiz

TOTAL POINTS 8

1.	The diagram for traditional programming had Rules and Data In, but what came out?	1 paint
	Answers	
	Binary	
	Machine Learning	
	O Bugs	
2.	Why does the DNN for Fashion MNIST have 10 output neurons?	1 point
	○ To make it train 10x faster	
	○ To make it classify 10x faster	
	O Purely Arbitrary	
	The dataset has 10 classes	
	3. What is a Convolution?	1 paint
	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	
	4. Applying Convolutions on top of a DNN will have what impact on training?	1 point
	lt will be slower	
	lt 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!	

5.	What method on an ImageGenerator is used to normalize the image?	1 point
	normalize	
	○ flatten	
	rezize()	
	rescale	
6.	When using Image Augmentation with the ImageDataGenerator, what happens to your raw image data on-disk.	1 paint
	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	
7.	Can you use Image augmentation with Transfer Learning?	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	
8.	When training for multiple classes what is the Class Mode for Image Augmentation?	1 paint
	Class_mode='multiple'	
	Class_mode='non_binary'	
	class_mode='categorical'	
	Class_mode='all'	