Graded Quiz: Applying Image Convolution		
LATEST SUBMISSION GRADE 100%		
What of the following statements are true about Convolutions EXCEPT:	1/1 point	
A convolution extract features that show commonality in an image.		
A convolution is a mathematical operation between two functions producing a third convoluted function that is a modified version of the first function.		
A convolution is a performs down-sampling by dividing the input into rectangular convolutional regions, and		
computing the maximum of each region.		
✓ Correct This answer should be selected		
A convolution operates upon each feature map separately to create a new set of the same number of convoluted	i	Activate Windows Go to Settings to activate Windows.
feature maps.		
✓ Correct		
This answer should be selected A convolution is a filter that passes over an image and processes the image.		
2. An image is composed of arrays and pixels with height and width.	1/1 point	
False		
● True		
✓ Correct Correctl		
From which library we take the 'misc' image to represent it?	1/1 point	
OpenCV		
○ Pillow ⑤ Scipy		Activate Windows Go to Settings to activate Windows.
○ Keras		
✓ Correct Correct		
4. Consider the following image for a Raccoon:	1/1 point	
30 20 30		
40 60 - 60		
What's applied to get this view of the Raccoon's image?		
Converting the image to 2D greyscale		
Applying pooling layers to the image Applying Convolutional layers to the image		
Blurring the original image		Activate Windows
✓ Correct Correct!		Go to Settings to activate Windows.
5. University of District Control of Control		
5. How we can visualize in Python every step of convolutions applied to an image?	1/1 point	
Initializing the Variables © Creating Tensorflow operations		
Creating Numpy arrays Applying Activation Functions		
✓ correct		
Correct		
6. We can't use convolutions to blur and sharpen images.	1/1 point	
False True		
✓ correct		
Correct! We can use convolutions for blurring and sharpening images		Activate Windows Go to Settings to activate Windows
7. Why do we apply Pooling to the image?	1/1 point	
To reduce the shape of the image by cropping it while maintaining the features that are detected. To reduce the overall amount of information in an image and reducing the features that are detected.		
To reduce the shape of the image by cropping it and reducing the features that are detected.		
To reduce the overall amount of information in an image while maintaining the features that are detected.		
✓ Correct Correctl		
8. What is true about Max Pooling?	1/1 point	
It increases the number of pixels in the output from the previous convolutional layer	17 I point	
☑ It reduces the dimensionality of images		
✓ Correct This answer should be selected		
Ins answer should be selected It reduces the number of pixels in the output from the previous convolutional layer		
✓ Correct		Activate Windows Go to Settings to activate Windows.
This answer should be selected ☑ It can be applied on 20 greyscale images		
✓ Correct This answer should be selected This answer should be selected. This are the selected should be selected should be selected. This are the selected should be selected should be selected should be selected should be selected. This are the selected should be select		

☐ It doesn't impact the dimensionality of images
☐ It can't be applied on 2D greyscale images