Assignment

To complete the assignment:

1. Install PyTorch and other necessary packages until you can run the above Python script. The script will also automatically download the Oxford-IIIT Pet Dataset (approximately 800mb in size). If your script is running correctly, it should be printing loss values on your screen. **YOU DO NOT NEED TO RUN THE PROGRAM UNTIL THE NETWORK IS FULLY TRAINED.**Just make sure it works.
2. Modify the code inside *MyNetwork*to change the design of the neural network. Specifically, modify the convolution and pooling layers to be the following:
   1. 5x5x64 Convolution
   2. 3x3x128 Convolution
   3. 2x2 MaxPool
   4. 3x3x256 Convolution
   5. 3x3x256 Convolution
   6. 2x2 MaxPool
   7. 3x3x512 Convolution
   8. 2x2 MaxPool
   9. 3x3x512 Convolution
   10. Linear Layer (the input size should be changed to the final size of your images, which start as 256x256x3)
3. If both your *\_\_init\_\_* function and *forward* function are correctly implemented, you should be able to run the training loop. Again, **YOU DO NOT NEED TO RUN THE PROGRAM UNTIL THE NETWORK IS FULLY TRAINED.**Once you feel confident that your code is correct, submit it to complete this lab. You only need to submit the *MyNetwork*code.

**Note:** For this class, we usually talk about images as being [rows, columns, channels], but PyTorch represents its data as [channels, rows, columns]. It shouldn't affect anything with how you do the lab, but might be important to know as your are debugging.