Assignment 5.1

1. Download COCO dataset for image segmentation. See how they define ground truth
2. Now take the architecture of Fully Convolutional Net (FCN – 8)
3. Implement the FCN -8 by yourself from scratch as you did for VGG 16.
4. Now, train the FCN -8 by 70% of the images and their segmented ground truth. You need to use the ground truth for loss calculation
5. For test, show the confusion matrix, f1 score for all test images with pixelwise calculation.
6. Each pixel has some class labels now with softmax probability
7. Then show three test outputs with probability.
    a. Winning class will have the color. But use shades for lower probability. Higher probability, bright color
    b. Discuss with me if you need help for this step