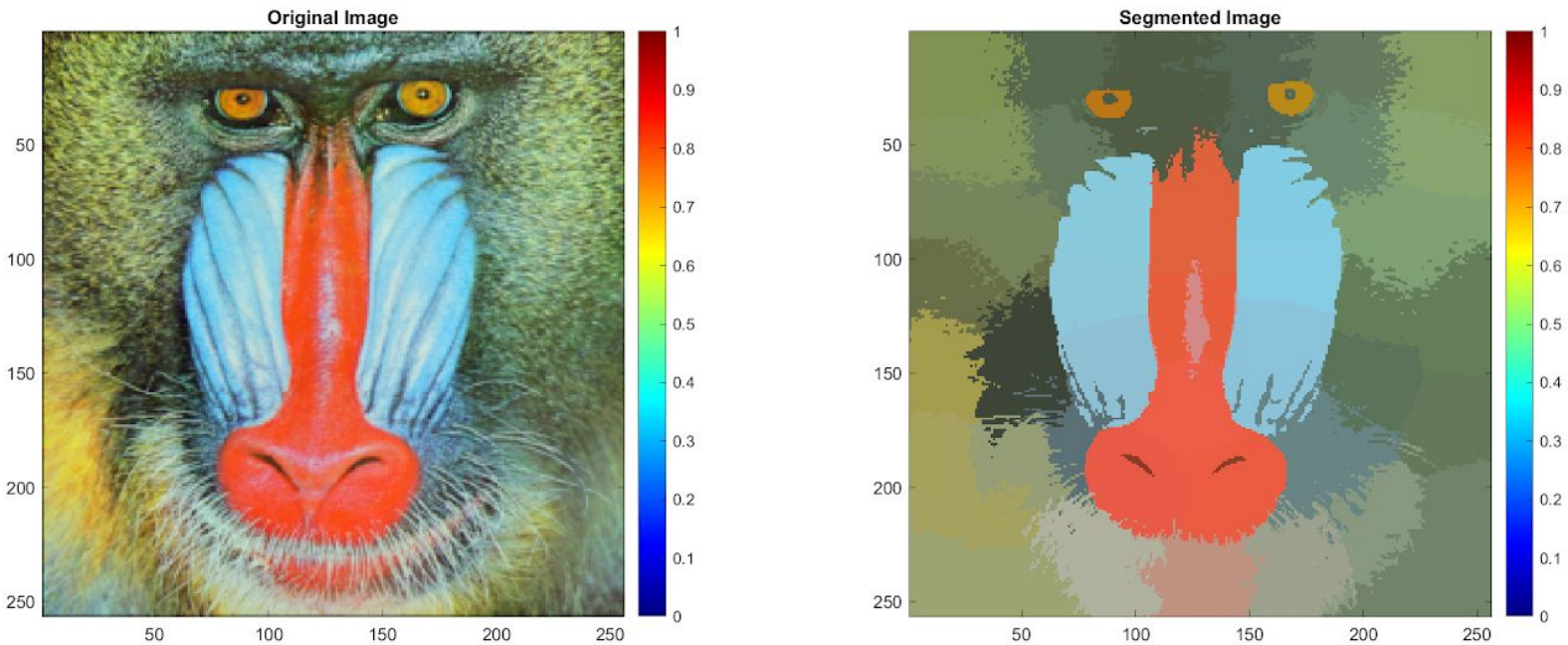# Report : Part 2 : Assignment 3

Parameters Used:

Gaussian Kernel bandwidth for the color feature = 0.03 (For Colors scaled between 0 and 1)
Gaussian Kernel bandwidth for the spatial feature = 220 (For 256x256 images)
Number of iterations = 20
Learning rate = 1.2 if current iterations < 10 else 0.6
Nearest neighbours (using knnsearch()) for calculating gradient = 1200

The number of segments obtained using the above parameters is 46. The measure used to calculate the number of segments is that of distinct 5 tuples (colors, space). We have used an adaptive learning rate to ascent quickly for half the iterations and then halving the initial learning rate