

Lab Assignment 2

1. RGB to Gray-scale conversion of images
 - a) Read any RGB image as input and convert it into grayscale image using direct function/library in Python. Show input and output together using subplot function
 - b) RGB to grayscale Image conversion using numpy and matplotlib only. No other special Python library can be used. Explain the steps in your own words
2. Take two images and perform Image subtraction, addition, and multiplication of those images using arrays.
3. Converting from one color space into another (RGB to HSV conversion)
4. Image resizing using bilinear, bicubic and nearest neighbour interpolation methods. What is your observation about the outputs of these methods; can you see any difference in outputs? Write it in your own words.