**In-class Activity 01**

1. Read a color image from the Internet (i.e., nature.jpg). Display its red (R), green (G) and blue (B) component separately.
2. Swap the position of three components of the input image to create a new image as (BRG), and save the new image into a new file.
3. Try to make the original image brighter or darker using add a constant or gamma correction. Values are optional.
4. Quantize and display the grayscale image using 2 bits, 4 bits, 6 bits and 8 bits. Visualize the effect of the operations.
5. Display the original image in gray-scale. Contrast it with:
6. logarithm transformation with c = 128/log(1024);
7. piecewise linear transformation with
8. With grayscale image, do three different actions:

- flip left to right using *fliplr*

- rotate clockwise 180 degrees using *rot*

- crop ½ central of the image using *crop*