Tutorial – Week 2

Given a grayscale image ('lena512.bmp') and a color image ('lena512color.tiff'), write a matlab program to do the following tasks

- 1. Read the images and display them
- 2. Basic operations on the images
 - a. Convert the color image to grayscale
 - b. Convert the grayscale image into a binary image
 - c. Negative the grayscale image
 - d. Write a function that return 3 channels (R, G, and B) of the color image as 3 new images
 - e. Extract a subimage size M x N centering at (x, y)
 - f. Write two functions to flip an image vertically and horizontally *
 - g. Write a function to rotate an image 90 degree left or right **
- 3. Display all the result images together with the original images in the same figure
- 4. Save all the result images into files
- 5. Display the information of the result images