ECE2036 - Signal Processing in Robotics

Digital Assignment-2

B1+TB1 slot

1. Take your picture, convert into a grey scale image and perform the following point operations (choose appropriate constants):
   a. Image Negation
   b. Log transformation
   c. Gamma correction
2. Consider an image of your choice and perform histogram equalization and histogram matching. Choose a gray scale image or a colour image
3. http://www.fit.vutbr.cz/~vasicek/imagedb/

   Take any of the image from the above link and perform both mean, median and Gaussian filters on it. Compare the results with respect to PSNR (peak signal to noise ratio)

   You can find more images in the following link.

   https://www.imageprocessingplace.com/root_files_V3/image_databases.htm