Lab 2

Question 1

The image is tif extention and it has 4 channels, with code image=img(:,:,1:3) the image is ready to save as JPG.

 Image

Question 2

We apply the grey level to image in oreder to obtain negative image as showen in the code.

Question 3

Image negatives useful for enhancing white or grey detail embedded in dark regions of an image. we got the same histogram but it's symmetric to Y axis.

This is the histogram for the original image :

 image

This is the histogram for the negative of the original image :

 image2

if you mean you want to compare the two histograms for binarized image and original image this is the histogram for binarized image and it's 2 binz for white and black.

 image

Question 4

The histogram equalization is use to enhance contrast of the image. this the result.

 image

Question 5

As I notice from studying the Binarized for image it's useful when the character in the image is too dark and not clear after applying the imbinarize on the image we got the image with clear character


原始图像
灰度图像
二值图像
去除孤立噪声
去除车牌以外的区域
去除上下边框和铆钉
去除左右边框
字符车牌
字符垂直方向投影
30
20
10
0
0
50
100
150