Assignment 2

- **1.** Clarify the following terms:
 - Dynamic range
 - Affine transformation
 - Histogram

- Image transformation
- Image translation
- Logarithmic transformation
- **2.** State the enhancement technique and its transformation function for each of the following cases:
 - a. Obtain negative of an image with gray levels in the range [0, 255]
 - b. Highlight gray range of interest to a viewer.
 - c. Decrease image brightness.
 - d. Enhance low contrast dark or washed out images.
- **3.** A 4-bit 75x40 image has the following intensities; Find out the equalized histogram gray levels for the image and Comment on the result.

Gray level	count
12	148
9	420
10	1180
11	732
8	520

4. For the following 3x3 image intensities find out its bit planes, which bit plane contain most of the significant visual information?

1	2	3
4	5	0
7	2	6

5. Write a program to enhance the image shown, by one of the image enhancement techniques. Explain why? Show the results of running the program and Comment on the result.

