

Assignment 1

1. Clarify the following terms:

- Digital image processing
- Sampling
- Spatial resolution
- Digital image
- Quantization
- Intensity level resolution

2. Answer the following questions:

- What is the first and foremost step in Digital Image Processing?
- After digitization process a digital image with M rows and N columns and L, intensity levels. What's the number of bits required to store this image?

3. A digital image consists of pixels. For a grayscale image, each pixel is assigned a grayscale level that presents its luminance. Write a program to find the mean of the pixels values, min and max gray levels of an image. Show the results of running the program and Comment on the result.