DIGITAL IMAGE PROCESSING

ASSIGNMENT 1

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1. What is a digital image?
   A digital image is an image f(x,y) that has been discretized both in spatial co-ordinates and in brightness. It is represented by a 2D integer array, or a series of 2D array, one for each color band. The digitized brightness level is called grey level.

2. What does the paradigm "bottom-up" processing mean?
   Bottom up processing means taking the smaller evidences and using them to construct the whole image

3. State at least three fundamentally different image sources
   a. Ultrasound
   b. X-Ray
   c. Infrared
   d. LIDAR