Digital Image Processing

Lab Assignment – 7

1. Take the image '1a.gif', apply **Discrete Cosine Transform** and display the output through appropriate means.

2. The binary image 'image2.jpg' is corrupted by **salt and pepper** noise. Implement a morphological algorithm to remove the noise.

3. Fig. 1 depicts a 4x4 grayscale image. Perform the following operations on the image:
   a. Resize the image to 6x7 and calculate the intensity values using **Bilinear Interpolation**.
   b. Resize the image to 6x7 and calculate the intensity values using **Bicubic Interpolation**.

99	85	170	130
40	98	23	44
60	85	210	190
190	100	156	166

Fig. 1