ASSIGNMENT 3:

Objective: To understand the concept of aliasing and false contouring.

1. Convert the given Lena image to grayscale image. Use the cv2.resize() to down sample the image with 4 sizes (128*128, 64*64, 32*32, and 16*16). Display the original image, and down sampled images with the same display size. ***Observe what happens.***

2. Down sample the grayscale Lena image with 8 different intensity ranges of values (0-255, 0-128, 0-64, 0-32, 0-16, 0-8, 0-4, and 0-2). (Note: Size of images are the same). And display all those 8 downsampled images in the same size display area on the screen. ***Observe what happens.***