

CV Lab Assignment-1

(you can use opencv library of python)

1. Read and write the dimensions of an image (any image).
2. Perform following operations on an image:
 - a) Grayscale conversion.
 - b) Find the index of pixels having value equal to 6 in both images.
 - c) Identify and display the value of darkest pixel in both the images.
 - d) Modify the above image by replacing the square (31x31) around darkest pixel with the white pixels.
 - e) In the above image (2 d), make a gray square with pixel value 100 at the center of this image.
3. Compute the average pixel value for each channel R, G, and B then subtract the average value per channel for the above image (used in q1).
4. Perform basic transformation on an image: Apply padding in case of loss of data.
 - A) Rotation 30 degree
 - B) Scaling by factor 2
 - C) Shifting (0,0) to (10, 10)
 - D) Filtering to detect edges.