Assignment - 3

Problem : Perform Logical Operation On Two Images.

Code

% Name Nitin Gupta ; Scholar Number : 20U02019 ; Branch : CSE

% Read The Image

img\_1=imread('circles.png');

img\_2=imread('circbw.tif');

%SubPlot Object Initialise

subplot(3,3,3);

% resize images

img\_1=imresize(img\_1,[200 200]);

img\_2=imresize(img\_2,[200 200]);

% and operation

img\_and=img\_1&img\_2;

% or operation

img\_or=img\_1|img\_2;

% compliment

img\_1\_com=not(img\_1);

img\_2\_com=not(img\_2);

% XOR Of Image

img\_xor=xor(img\_1,img\_2);

% NOR Of Image

img\_nor=not(img\_or);

% Nand of Image

img\_nand=not(img\_and);

subplot(3,3,1);

imshow(img\_1);

title('Original Image 1')

subplot(3,3,2);

imshow(img\_2);

title('Original Image 2')

subplot(3,3,3);

imshow(img\_and);

title('And Image')

subplot(3,3,4);

imshow(img\_or);

title('OR Image')

subplot(3,3,5);

imshow(img\_1\_com);

title('Not Of First Image');

subplot(3,3,6);

imshow(img\_2\_com);

title('Not Of Second Image');

subplot(3,3,7);

imshow(img\_xor);

title('Xor of Image');

subplot(3,3,8);

imshow(img\_nor);

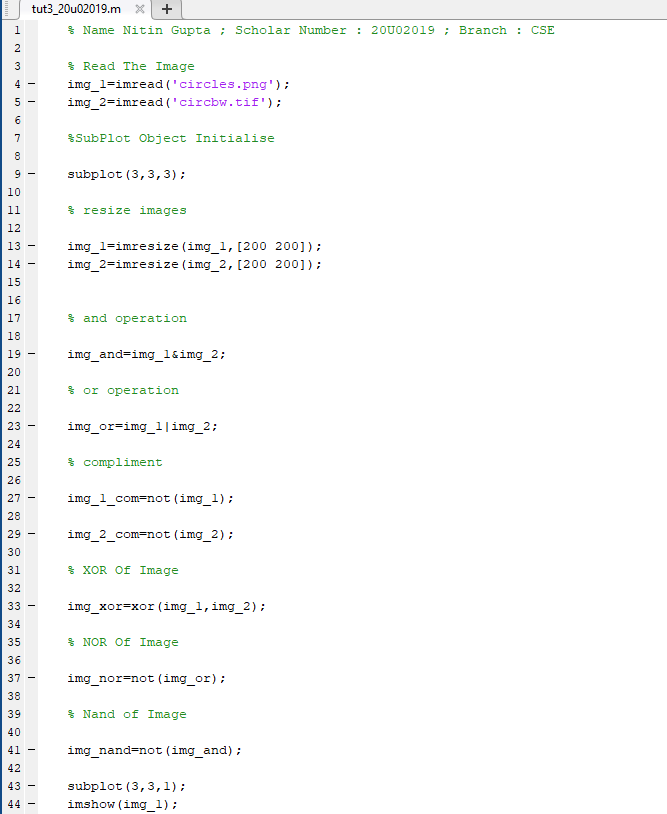
title('Nor Of Images');

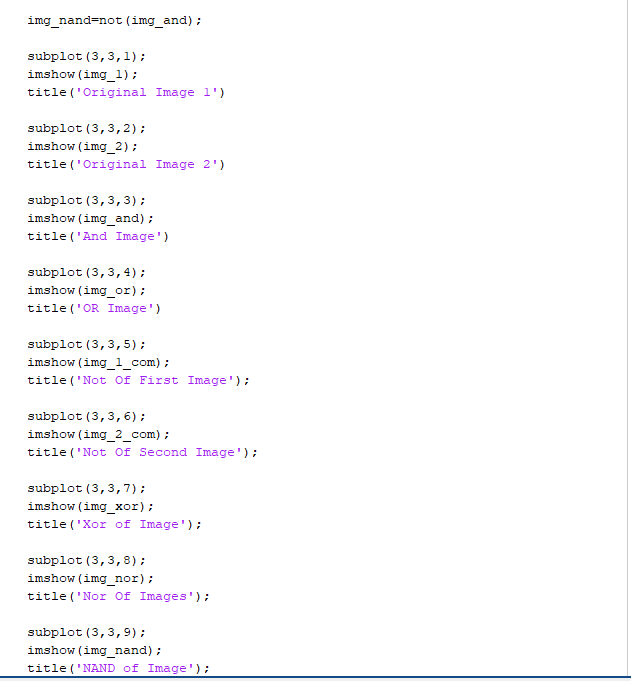
subplot(3,3,9);

imshow(img\_nand);

title('NAND of Image');

Code





Output

