**DWT**

clc

clear all

i = imread('original\_image.jpg');

original\_image\_grayScale = rgb2gray(imread('original\_image.jpg')); % convert image to greyscale

%whos

figure(1);

imshow(original\_image\_grayScale);

sX=size(i);

[LL,LH,HL,HH]= dwt2(i,'db1');

figure(2)

subplot(2,2,1);imshow(LL);title('LL band of image');

subplot(2,2,2);imshow(LH);title('LH band of image');

subplot(2,2,3);imshow(HL);title('HL band of image');

subplot(2,2,4);imshow(HH);title('HH band of image');

**COC FOR <1**

clear all

x=rgb2gray(imread('original\_image.jpg'));

[r,c]=size(x);

y=imresize(rgb2gray(imread('test\_image.jpg')),[r,c]);

size\_y=size(y);

cc=corr2(x,y)

imshow(x),figure,imshow(y)

**coc=1**

clear all

x=rgb2gray(imread('flower.jpg'));

[r,c]=size(x);

y=imresize(rgb2gray(imread('flower1.jpg')),[r,c]);

size\_y=size(y);

cc=corr2(x,y)

imshow(x),figure,imshow(y)