cb\_shaded=im2double(imread("checkerboard1024-shaded.tif"));

cb\_shaded=rescale(cb\_shaded,0,1);

imshow(cb\_shaded,[])

Add noise to the checkerboard

Imgn =imnoise(cb\_shaded,"gaussian");

ImgnSp =imnoise(cb\_shaded,"salt & pepper");

figure

subplot(1,2,1)

imshow(Imgn)

subplot(1,2,2)

imshow(ImgnSp)

Applying both filter to compare the results

guIM=imgaussfilt(Imgn,2);

IMsp =medfilt2(ImgnSp);

figure

subplot(1,2,1)

imshow(guIM)

subplot(1,2,2)

imshow(IMsp)

dividing the original image by the result, Use the "elementwise" division, which in MATLAB is the ./ command

DIV=cb\_shaded ./ guIM;

DIV1=cb\_shaded ./ IMsp;

figure

subplot(1,2,1)

imshow(DIV)

subplot(1,2,2)

imshow(DIV1)