CODE

clc;

clearall;

closeall;

a1=imread('rice.png');

subplot(3,3,1);

imshow(a1);

title('Original image');

%a2=rgb2gray(a1);

a=im2bw(a1);

b = strel('line',5,0);

IM1 = imdilate(a,b);

subplot(3,3,2);

imshow(IM1);

title('Dilated image');

IM2=imerode(a,b);

subplot(3,3,3);

imshow(IM2);

title('Erorded image');

IM3 = imclose(a,b);

subplot(3,3,4);

imshow(IM3);

title('Closed image');

IM4 = imopen(a,b);

subplot(3,3,5);

imshow(IM4);

title('Open image');

d=IM1-a;

subplot(3,3,6);

imshow(d);

se=[1 1 1; 1 1 1; 1 1 1];

for i=2:255

for j=2:255

f1=a(i-1: i+1, j-1: j+1).\*se;

f(i,j)=max(max(f1));

end

end

subplot(3,3,7);

imshow(f);

title('Dialted 1');

for i=2:255

for j=2:255

g1=a(i-1: i+1, j-1: j+1).\*se

g(i,j)=min(min(g1));

end

end

subplot(3,3,8);

imshow(g);

title('Droded 1');

