I=imread('img.png');

r=size(I,1);

c=size(I,2);

R=zeros(r,c,3);

G=zeros(r,c,3);

B=zeros(r,c,3);

R(:,:,1)=I(:,:,1);

G(:,:,2)=I(:,:,2);

B(:,:,3)=I(:,:,3);

figure

subplot(2,3,1)

imshow(uint8(R));

subplot(2,3,2)

imshow(uint8(G));

subplot(2,3,3)

imshow(uint8(B));

%processing the image

R=I(:,:,1);

G=I(:,:,2);

B=I(:,:,3);

final=cat(3,R,G,B);

subplot(2,3,4)

imshow(I);

title('Original');

subplot(2,3,6)

imshow(final);

title('Final');

