

```
clear all;
close all;
clc;
I=imread('image.jpg');
imshow(I);
Ig=rgb2gray(I);
figure;
imshow(Ig);
[Ia,Iv,Ih,Id]=dwt2(Ig, 'haar');
figure;
imshow(Ia);
figure;
imshow(Iv);
figure;
imshow(Ih);
figure;
imshow(Id);
Ir=idwt2(Ia,Iv,Ih,Id, 'haar');
figure;
imshow(Ir);
```











