

```
clc;
clear all;
close all;
warning off
a=rgb2gray(imread('Bleach-for-desktop.jpg'));
[m,n]=size(a);
b=double(a);
c=de2bi(b);
c1=c(:,1);
r1=reshape(c1,m,n);
c2=c(:,2);
r2=reshape(c2,m,n);
c3=c(:,3);
r3=reshape(c3,m,n);
c4=c(:,4);
r4=reshape(c4,m,n);
c5=c(:,5);
r5=reshape(c5,m,n);
c6=c(:,6);
r6=reshape(c6,m,n);
c7=c(:,7);
r7=reshape(c7,m,n);
c8=c(:,8);
r8=reshape(c8,m,n);
subplot(2,4,1);
imshow(r1);title('LSB Bit Plane');
subplot(2,4,2);
imshow(r2);title('2nd Bit Plane');
subplot(2,4,3);
imshow(r3);title('3rd Bit Plane');
subplot(2,4,4);
imshow(r4);title('4th Bit Plane');
subplot(2,4,5);
imshow(r5);title('5th Bit Plane');
subplot(2,4,6);
imshow(r6);title('6th Bit Plane');
subplot(2,4,7);
imshow(r7);title('7th Bit Plane');
subplot(2,4,8);
imshow(r8);title('MSB Bit Plane');
```

**LSB Bit Plane**



**2nd Bit Plane**



**3rd Bit Plane**



**4th Bit Plane**



**5th Bit Plane**



**6th Bit Plane**



**7th Bit Plane**



**MSB Bit Plane**

