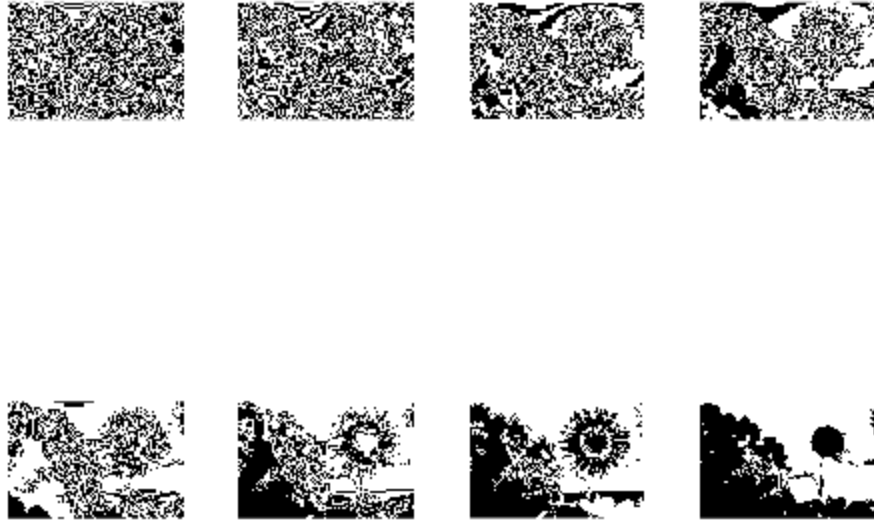


---

```
clc;
clear all;
close all;
I = imread("C:\Users\hp\Downloads\images.jpg");
if size(I,3)==3
    I=rgb2gray(I);
end
[rows, cols]=size(I); %getting the number of rows and columns in the
    matrix of the image.
figure;
imshow(I);
bit_planes=zeros(rows, cols, 8); %storing the planes of different
    layers of the photo (here 8 are there)
for k=1:8 % For each bit
    power=2^(k-1);
    for i=1:rows
        for j=1:cols %for each element
            bit_planes(i,j,k)=mod(floor(double(I(i,j))/power), 2); %shifting
%the element, removing the fraction part and getting the LSB out of it
            to get
%the element for the desried layer and pixel.
        end
    end
end
figure;
for k = 1:8
    subplot(2,4,k)
    imshow(bit_planes(:,:,k),[]) %shows the 2D image according to the bit
%layer one by one using allrows and columns at their max and min
    values
end
```





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