

```

me = imread('me.png');
me=rgb2gray(me);
subplot(3,3,1);
imshow(me);
title('Original');
for k=1:8
    img8(:,:,k) = bitget(me,k);
    subplot(3,3,k+1);
    imshow(img8(:,:,k),[]);
    title(sprintf('%d',k));
end

figure,imshow(img8(:,:,7)*2.^7+img8(:,:,6)*2.^6);
title('7th and 8th');

figure,imshow(img8(:,:,7)*2.^7+img8(:,:,6)*2.^6+img8(:,:,5)*2.^5+img8(:,:,4)*2.^4);
title('5th,6th,7th and 8th');

% without using bitget
subplot(3,3,1)
imshow(me);
title('original');
me=double(me);
for k=1:8
    img_8(:,:,k) = mod(floor(me/(power(2,k-1))),2);
    subplot(3,3,k+1);
    imshow(img_8(:,:,k),[]);
    title(sprintf('%d',k));
end
if (img_8(:,:,1)==img8(:,:,1))
    disp(1)
end

```



original



1



2



3



4



5



6



7



8



```

me = imread('me.png');
me=rgb2gray(me);
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    subplot(3,3,k+1);
    imshow(img8(:,:,k),[]);
    title(sprintf('%d',k));
end

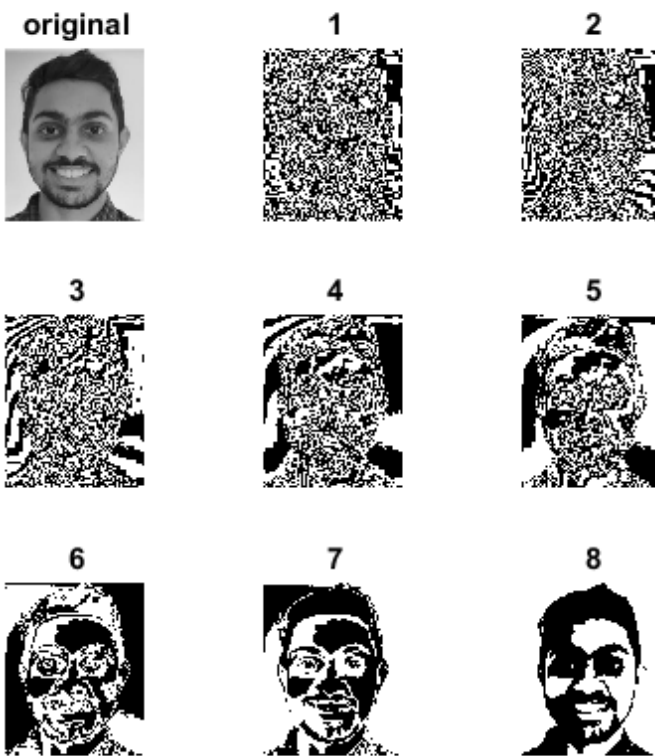
figure,imshow(img8(:,:,7)*2.^7+img8(:,:,6)*2.^6);
title('7th and 8th');

figure,imshow(img8(:,:,7)*2.^7+img8(:,:,6)*2.^6+img8(:,:,5)*2.^5+img8(:,:,4)*2.^4);
title('5th,6th,7th and 8th');

% without using bitget
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imshow(me);
title('original');
me=double(me);
for k=1:8
    img_8(:,:,k) = mod(floor(me/(power(2,k-1))),2);
    subplot(3,3,k+1);
    imshow(img8(:,:,k),[]);
    title(sprintf('%d',k));
end
if (img_8(:,:,1)==img8(:,:,1))
    disp(1)
end

```

Original**1****2****3****4****5****6****7****8****7th and 8th**



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```
for i=1:10
    for j=1:10
        if mod(i+j,2)==0
            A(i,j)=0;
        else
            A(i,j)=255;
        end
    end
end
subplot(2,3,1);
imshow(A);
subplot(2,3,4);
imhist(A);

for i=1:10
    for j=1:10
        if mod(i,2)==0
            B(i,j)=0;
        else
            B(i,j)=255;
        end
    end
end
subplot(2,3,2);
imshow(B);
subplot(2,3,5);
imhist(B);

for i=1:10
    for j=1:10
        if i<6
            C(i,j)=0;
        else
            C(i,j)=255;
        end
    end
end

subplot(2,3,3);
imshow(C);
subplot(2,3,6);
imhist(C);
```

