
```
clc;
clear all;
close all;

img=imread('cameraman.tif');
imshow(img);
title('OriginalImage');

[m,n]=size(img);%imagesize
figure;

%bitplaneslicing

%for0thbitplane
for ii=1:m
    for jj=1:n
        Bitp0(ii,jj)=bitand(img(ii,jj),1);%extractLSB
    end
end

%for1stbitplane
for ii=1:m
    for jj=1:n
        Bitp1(ii,jj)=bitand(img(ii,jj),2);
    end
end

%for2ndbitplane
for ii=1:m
    for jj=1:n
        Bitp2(ii,jj)=bitand(img(ii,jj),4);
    end
end

%for3rdbitplane
for ii=1:m
    for jj=1:n
        Bitp3(ii,jj)=bitand(img(ii,jj),8);
    end
end

%for4thbitplane
for ii=1:m
    for jj=1:n
        Bitp4(ii,jj)=bitand(img(ii,jj),16);
    end
end

%for5thbitplane
for ii=1:m
    for jj=1:n
        Bitp5(ii,jj)=bitand(img(ii,jj),32);
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        end
    end

%for6thbitplane
for ii=1:m
    for jj=1:n
        Bitp6(ii,jj)=bitand(img(ii,jj),64);
    end
end

%for7thbitplane
for ii=1:m
    for jj=1:n
        Bitp7(ii,jj)=bitand(img(ii,jj),128);
    end
end

imshow(Bitp0);
title('0th bit plane Image');
figure;
imshow(Bitp1);
title('1st bit plane Image');
figure;
imshow(Bitp2);
title('2nd bit plane Image');
figure;
imshow(Bitp3);
title('3rd bit plane Image');
figure;
imshow(Bitp4);
title('4th bit plane Image');
figure;
imshow(Bitp5);
title('5th bit plane Image');
figure;
imshow(Bitp6);
title('6th bit plane Image');
figure;
imshow(Bitp7);
title('7th bit plane Image');

%bitplaneremoval
%removing0th,5thand7thbitplanes
for ii=1:m
    for jj=1:n
        bitpr0(ii,jj)=bitand(img(ii,jj),(255-(2^0)));%remove0thbit
        bitpr5(ii,jj)=bitand(img(ii,jj),(255-(2^5)));%remove5thbit
        bitpr7(ii,jj)=bitand(img(ii,jj),(255-(2^7)));%remove7thbit
    end
end

figure;imshow(bitpr0);
title('0th bit plane removed Image');
figure;imshow(bitpr5);

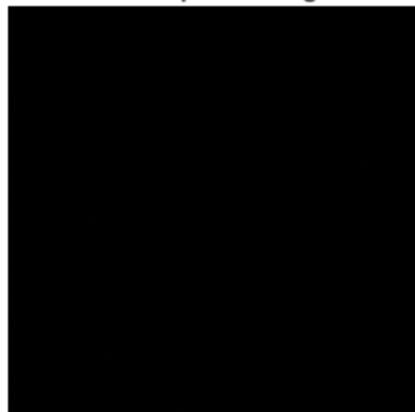
```

```
title('5th bit plane removed Image');
figure;imshow(bitpr7);
title('7th bit plane removed Image');
```

OriginalImage



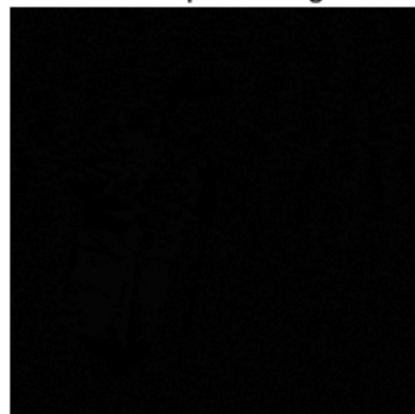
0th bit plane Image



1st bit plane Image



2nd bit plane Image



3rd bit plane Image



4th bit plane Image



5th bit plane Image



6th bit plane Image



7th bit plane Image



0th bit plane removed Image



5th bit plane removed Image



7th bit plane removed Image



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