EXPERIMENT- 12

Academic Year: 2021-22	**Semester:** 6th
Course: Digital Image Processing Lab	**Course Code**: 5EN374
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Batch: EN-1	**Performed on:** 23/02/2022

TITLE OF EXPERIMENT: Study of Bit-plane slicing of an image using MATLAB.

AIM: To study bit-plane slicing of an image using MATLAB.

PROGRAM:

```
clc;
clear all;
close all;
c=imread('caman.tif');
cd=double(c);
c0=mod(cd,2);
figure;
imshow(c0);
c1=mod(floor(cd/2),2);
figure;imshow(c1);
c2=mod(floor(cd/4),2);
figure;imshow(c2);
c3=mod(floor(cd/8),2);
figure;imshow(c3);
c4=mod(floor(cd/16),2);
figure;imshow(c4);
c5=mod(floor(cd/32),2);
figure;imshow(c5);
c6=mod(floor(cd/64),2);
figure;imshow(c6);
c7=mod(floor(cd/128),2);
figure;imshow(c7);
```

INPUT: (Image)

OUTPUT: (Image)