

NAME:- DUBEY KARAN SANJEEV
CLASS:- B.E - 4
ROLL NO:- 04
BATCH:- A

EXPERIMENT 8

SOURCE CODE:

```
clear all;
close all;
img1=imread('moon.tif');
figure,
imshow(img1);
title('Input Image');
[rows,cols]=size(img1);
gxm=[-1,-1,-1;0,0,0;1,1,1];
gym=[-1,0,1;-1,0,1;-1,0,1];
for i=2:rows-1
    for j=2:cols-1

gx(i,j)=(img1(i+1,j-1)+img1(i+1,j)+img1(i+1,j+1))-(img1(i-1,j-1)+i
mg1(i-1,j)+img1(i-1,j+1));

gy(i,j)=(img1(i-1,j+1)+img1(i,j+1)+img1(i+1,j+1))-(img1(i-1,j-1)+i
mg1(i,j-1)+img1(i+1,j-1));
    g(i,j)=abs(gx(i,j))+abs(gy(i,j));
    end
end
m=max(max(g))
n=min(min(g))
t=input('Enter threshold:');
[r,c]=size(g);
for i=1:r
    for j=1:c
        if(g(i,j)<t)
            ep(i,j)=0;
        else
            ep(i,j)=1;
        end
    end
end
figure,
imshow(ep);
title('Edge Discontinuity Image');
```

OUTPUT:

Enter threshold:100

