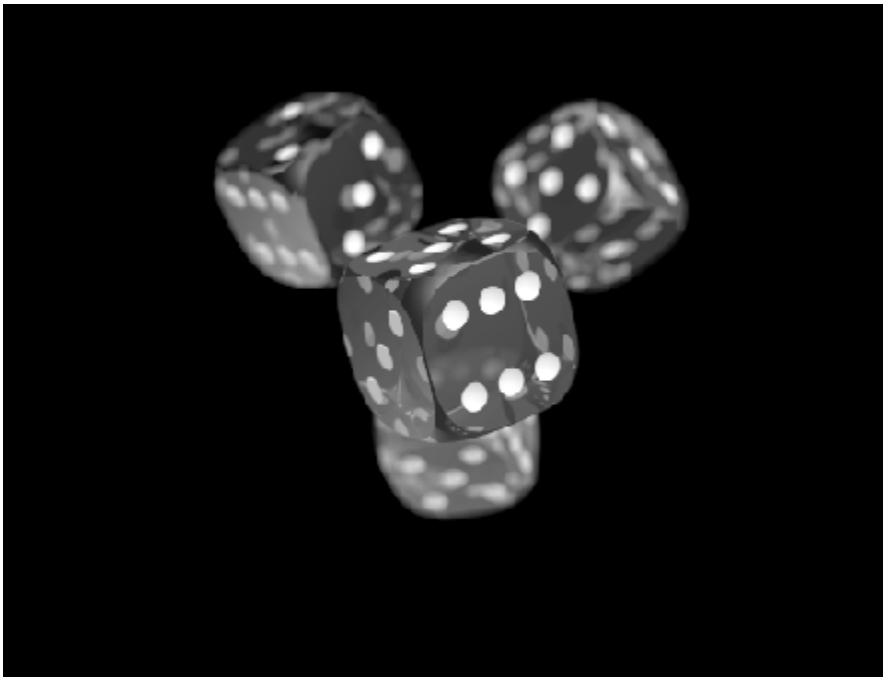
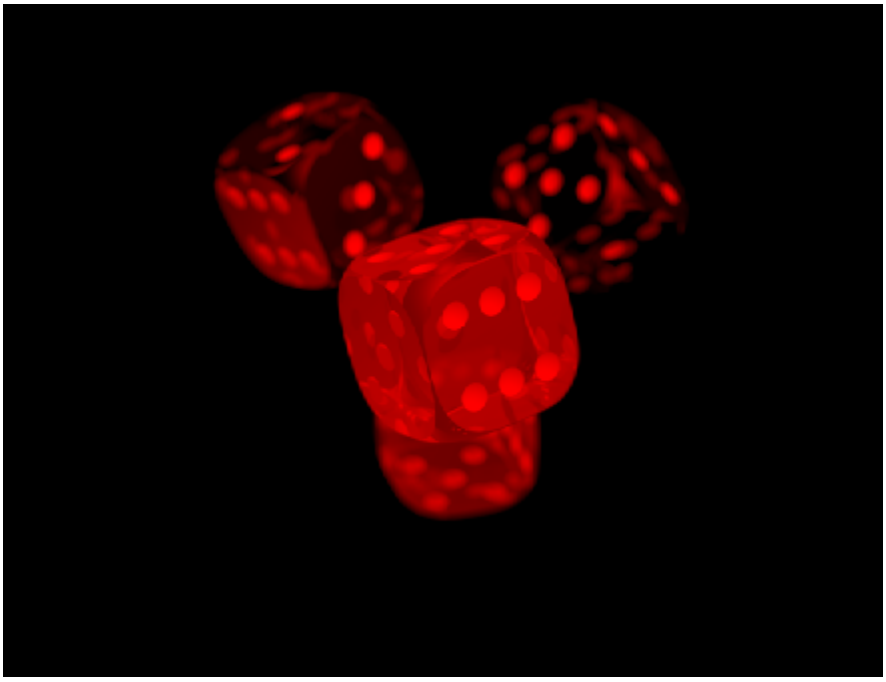
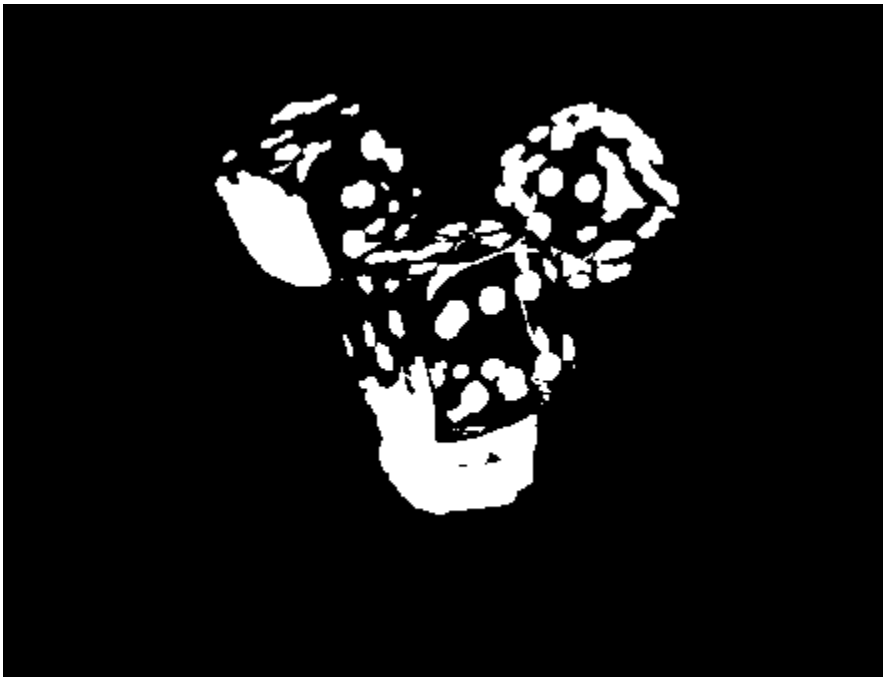
```
%Fundamental Oeporation for Image Processing in MATLAB
%Date: 14/01/2026
clc;
clear all;
close all;
%Basic Operations that clear the command window and closes the figure
%window
B= randi([0,255],8,8);
display(B);
%to create a 8*8 matrix with random numbers ranging between 0 and 255
I=imread("https://upload.wikimedia.org/wikipedia/commons/4/47/
PNG_transparency_demonstration_1.png");
figure
imshow(I);
%Uploading the basic input image
figure %for opening seperate window for each image
Ig=rgb2gray(I); %keyword to convert image to grayscale
imshow(Ig);
%grayscale image shown
I_red=imread("https://upload.wikimedia.org/wikipedia/commons/4/47/
PNG_transparency_demonstration_1.png");
I_red(:,:,2)=0; %making the pixels of green channel zero
I_red(:,:,3)=0; %making the pixels of blue channel zero
figure
imshow(I_red);
%the image is converted to red channel only
%to make it blue or green set the other two respective colour pixels to
%zero
Ib=Ig>100;
figure
imshow(Ib);
%the above logical expression sets the value of pixels above 100 to 1 and
%below that to 0 to convert the image to black and white
```

```
B =

   228   208    90    97   145    42    58    27
   245    62   212   145   120   154   233   246
   140   237   149    19     3    67    39     1
    35    89   140    13    86   167   211   198
    38    50   234   135    41   176   137   209
    65    64    73   199   203   191   255   222
   215   157   193   239    79   115    20    21
    65   121   192    33   135    21   113   102
```







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