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%Fundamental Oeporation for Image Processing in MATLAB
%Date: 18/01/2026
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("Daemon.jpg");
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("Daemon.jpg");
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.
```

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B =

    11   174   210    96   196    51    28   217
   193   180   110    55    42   104    34   143
    62   113   227   202   220   191   173   237
   113     5   100   243   253   211   126   178
   176    84   196    83   131   202    48   149
    91   108   101   171   226    81   126   208
   188    69   206   112   150   136    37   225
   101    50   193   213    39    23    14   253
```

Published with MATLAB® R2025b