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%Fundamental Oeporation Digital 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("anu.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("anu.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 =

   124   164   159    57   231   154    21    60
   111    96   150    43   250   182    67   117
   114   207    53    58   112    56   205   246
    78   136    77   111    28    30     7   139
   130    89   120    79    66    75   237   133
   130   240    59   236   104    81   186    59
   209   224   216   110   152   108   125   125
   203   140    49    47    67   130   148   159
```

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