
```
%Fundamental Oeration for Image Processing in MATLAB
%DDate: 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("C:\Users\hp\OneDrive\Desktop\De10.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("C:\Users\hp\OneDrive\Desktop\De10.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.
```

B =

211	209	108	17	136	39	163	65
251	66	24	81	83	71	245	57
186	152	153	135	27	112	61	170
88	5	120	167	156	134	173	216
149	108	178	104	199	117	74	88
27	80	179	209	108	224	171	199
232	41	163	183	23	132	177	172
225	45	8	247	68	241	17	1



