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%Fundamental Oeperation 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("Hardik-Pandya.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("Hardik-Pandya.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 =

86	186	199	227	175	191	93	197
75	181	86	204	33	149	94	52
191	200	155	187	185	189	175	99
2	73	189	13	28	60	153	141
12	177	26	18	30	188	202	58
170	142	32	22	164	248	94	164
154	101	140	204	84	221	52	124
134	15	124	241	167	22	22	38





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