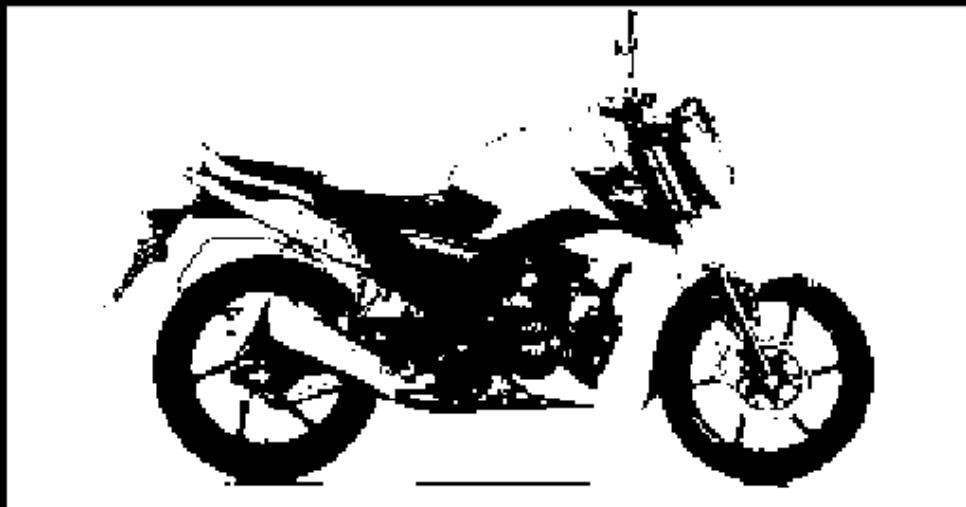```matlab
%Fundamental Oeporation for Image Processing in MATLAB
%Date: 18/01/2026
clc;
clear all;
close all;
%Basic Operations that clear the command window and closes the figure
%window
B= randi([0,255],8,8);
display(B);
%to create a 8*8 matrix with random numbers ranging between 0 and 255
I=imread("images.jpeg");
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("images.jpeg");
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 =*

| 173 | 25 | 126 | 7 | 206 | 250 | 133 | 249 |
| 101 | 67 | 199 | 190 | 147 | 182 | 24 | 166 |
| 94 | 85 | 183 | 128 | 46 | 128 | 209 | 204 |
| 252 | 174 | 231 | 122 | 61 | 120 | 209 | 116 |
| 9 | 34 | 228 | 231 | 226 | 15 | 184 | 110 |
| 226 | 184 | 85 | 156 | 7 | 174 | 38 | 211 |
| 233 | 27 | 178 | 158 | 125 | 10 | 168 | 21 |
| 203 | 167 | 50 | 220 | 42 | 18 | 132 | 34 |

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