```
%Fundamental Oeporation 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("me.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("me.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);
```

```
B =

   129   212    75    14   113   133    38   146
    51   160    46   209    21   244   217   146
   109   137   237   135    14    18   200    73
    43   166    17   177   161    53    69   178
   192   186   148    54   203   198    58   203
    94    24   163   139   176   234    82   113
   241   224   166   179    88   200   212   114
     4     3   221   244   242    75   210   119
```


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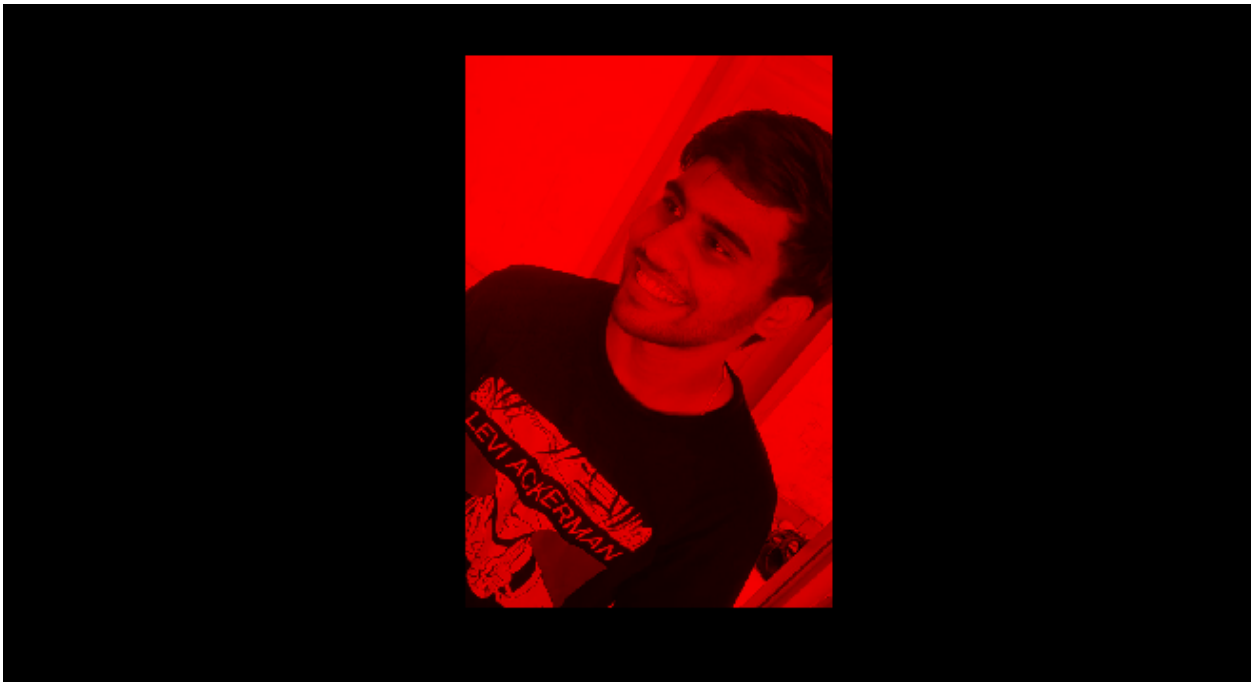

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