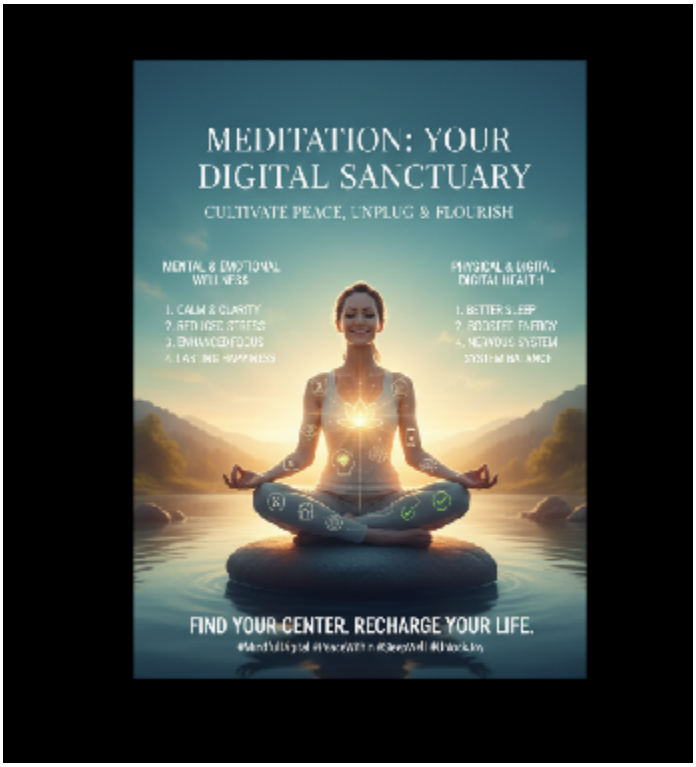
```
%basic for Image Processing
clc;
clear all;
close all;

% Create a 8*8 matrix with random numbers between 0 and 255
A = randi([0,255],8,8);
display(A);

%Upload the input image
I = imread("MED.png");
figure();
imshow(I); %show the image

% to convert image to grayscale
Ig=rgb2gray(I);
figure();
imshow(Ig); %show the gray image

%the image is converted to red channel only
Ired=imread("MED.png");
Ired(:,:,2)=0; %making the pixels of green zero
Ired(:,:,3)=0; %making the pixels of blue zero
figure();
imshow(Ired);

%to convert the image to black and white.
BW=Ig>128;
figure();
imshow(BW);
```

```
A =

   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
```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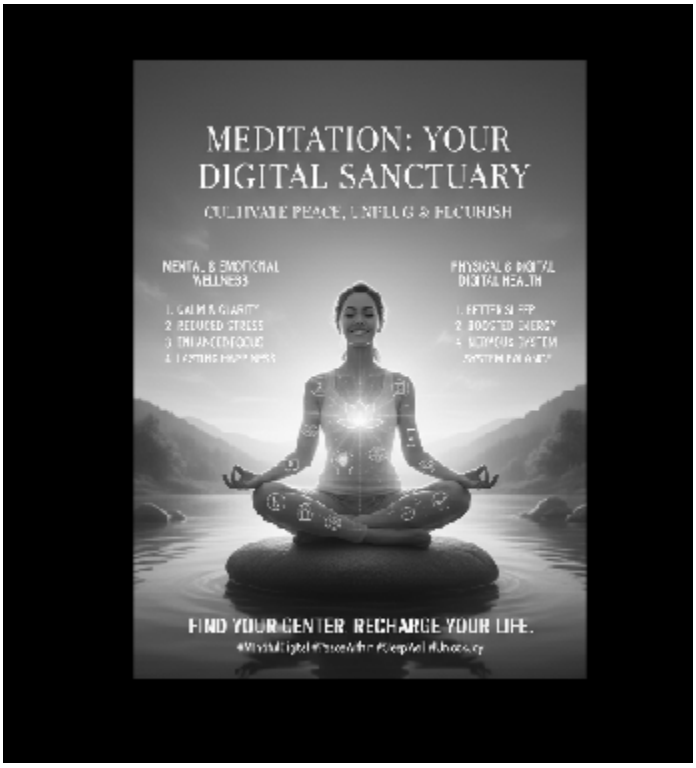
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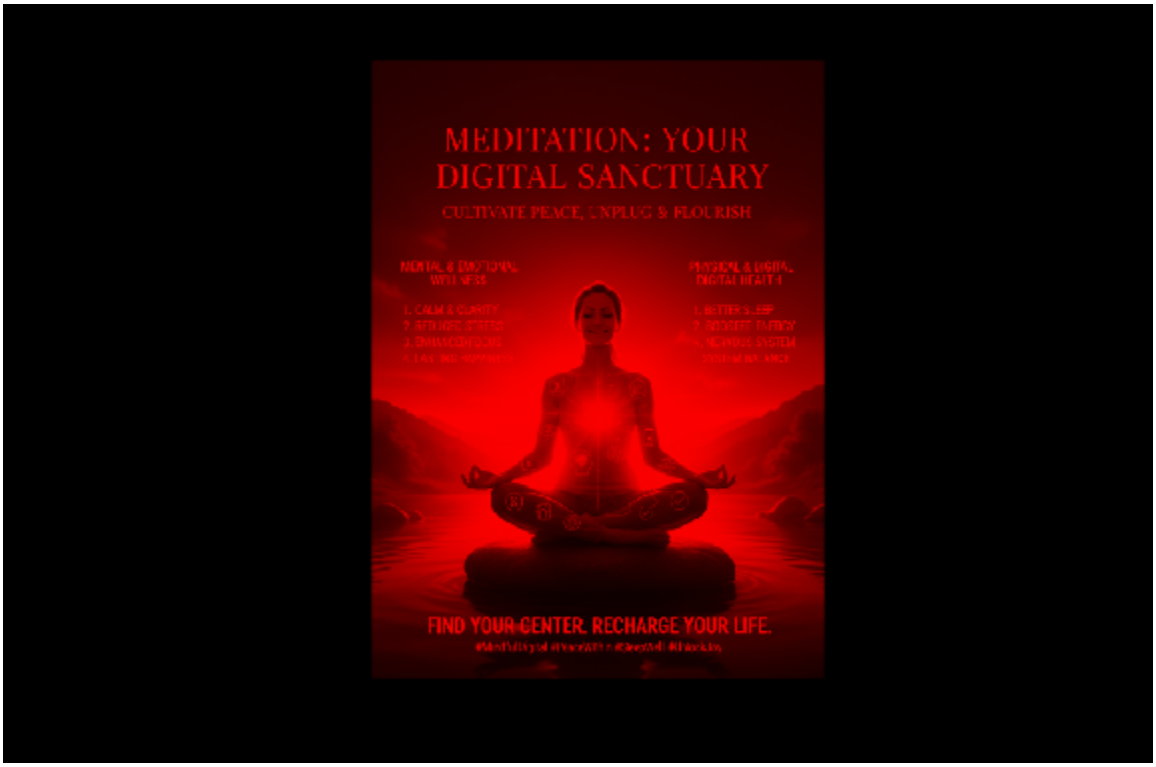

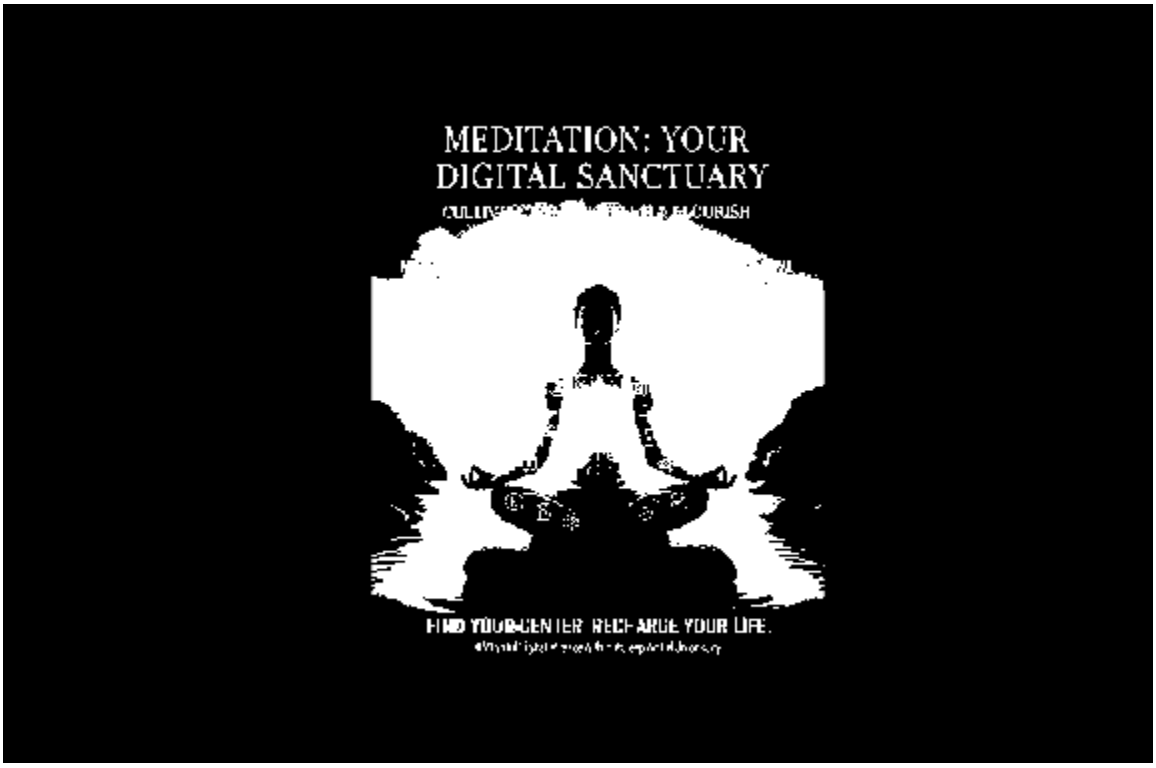

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