Indian Institute of Information Technology, Nagpur

Digital Image Processing Lab Report

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```
clc; close all; clear all;
image = imread('C:patel.jpg');
figure(1)
histogram(image)
image1 = histeq(image);
figure(2)
subplot(1,2,1)
imshow(image)
subplot(1,2,2)
imshow(image1)
```

clc; clear ; close all;

Image = imread('C:patel.png'); figure(1)

subplot(2,2,1)

Image$_b w = rgb2gray(Image)$;

imshow(Image$_b w$);

title('Black and White')

subplot(2,2,2)

image$_r = Image$;

image$_r(:,:,2) = 0$;

image$_r(:,:,3) = 0$;

imshow(image$_r$)

title('Red')

subplot(2,2,3)

image$_g = Image(:,:,:)$;

image$_g(:,:,3) = 0$;

image$_g(:,:,1) = 0$;

imshow(image$_g$)

title('Green')

subplot(2,2,4)

image$_b = Image$;

image$_b(:,:,2) = 0$;

image$_b(:,:,1) = 0$;

imshow(image$_b$)

title('Blue')

figure(2)

[a,b] = size(Image); I = zeros(a,b,8);

for i=1:a for j = 1:b I(i,j,:) = de2bi(Image(i,j),8,'left-msb'); end end

$\text{Image}_comp = uint8(bi2de(I(:,:,1) + I(:,:,2) + I(:,:,3) + I(:,:,4) + I(:,:,5) + I(:,:,6) + I(:,:,7), 8));$