**Aim: Reading images, writing image, conversion of images, and complementing of an image.**

% Reading an image

originalImage = imread('one.jpeg'); % Replace 'example.jpg' with your image file

% Display the original image

subplot(2, 2, 1);

imshow(originalImage);

title('Original Image');

% Writing the original image to a new file

imwrite(originalImage, 'original\_image.jpg'); % Save as 'original\_image.jpg'

% Convert the image to grayscale

grayImage = rgb2gray(originalImage);

% Display the grayscale image

subplot(2, 2, 2);

imshow(grayImage);

title('Grayscale Image');

% Writing the grayscale image to a new file

imwrite(grayImage, 'grayscale\_image.jpg'); % Save as 'grayscale\_image.jpg'

% Complementing (inverting) the grayscale image

complementedImage = imcomplement(grayImage);

% Display the complemented image

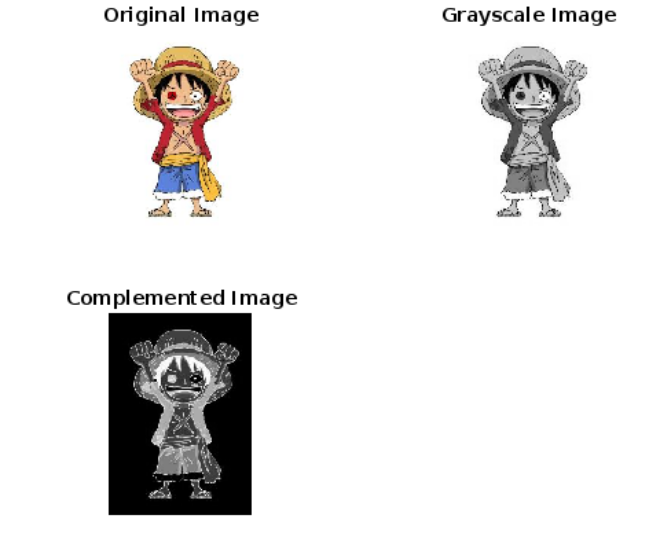
subplot(2, 2, 3);

imshow(complementedImage);

title('Complemented Image');

% Writing the complemented image to a new file

imwrite(complementedImage, 'complemented\_image.jpg'); % Save as 'complemented\_image.jpg'

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