% Read the grayscale image

img = imread("circuit.tif");

% Display the original image

subplot(1, 2, 1);

imshow(img);

title("Original Image");

% Levels of the 8-bit image

L = 2^8;

% Calculate the negative image

neg = (L - 1) - img;

% Display the negative image

subplot(1, 2, 2);

imshow(neg);

title("Negative Image");

%obtain flip image

a = imread('circuit.tif');

b = flip(a, 2); % horizontal flip

c = flip(a, 1); % vertical flip

subplot(3,1,1);

imshow(a);

title('Original Image');

subplot(3,1,2);

imshow(b);

title('Horizontally Flipped Image');

subplot(3,1,3);

imshow(c);

title('Vertically Flipped Image');