clc;

clear all;

close all;

% To read color image & convert into gray

im=imread('Flowers001.jpg');

img=rgb2gray(im);

figure,subplot(2,2,1),imshow(im),title('original RGB image');

subplot(2,2,2),imshow(img),title('Gray image');

%Image\_Neg

im\_neg=255-double(im);

figure,subplot(2,2,3),imshow(uint8(im\_neg));title('Negative Image');

%Point \_Process

%To Increase brightness of Image

b\_incr=im+70;

subplot(2,2,1),imshow(b\_incr),title('Brightened image');

% To suppress Brightness

b\_decr=im-50;

subplot(2,2,2),imshow(b\_decr),title('Brighteness suppressed image');

% To decrease Contrast

figure,imshow(img),title('Gray image');

C\_decr=im\*0.6;

figure,subplot(2,2,3),imshow(C\_decr),title('Contrast decreased image');

original\_image\_contrast=max(max(img))-min(min(img));

AfterContrastadjustment\_image\_contrast=max(max(C\_decr))-min(min(C\_decr));

%To increase Contrast

C\_incr=im\*2;

subplot(2,2,4),imshow(C\_incr),title('Contrast increased image');

original\_image\_contrast=max(max(im))-min(min(im));

After\_increment\_image\_contrast=max(max(C\_incr))-min(min(C\_incr));

% Scaling (Resize)

I=imread('Flowers001.jpg');

subplot(2,2,1); subimage(I); title('Original Image');

s=input('Enter Scaling Factor');

j=imresize(I,s);

subplot(2,2,2); subimage(j); title('Scaled Image');

% Rotation

K=imrotate(j,60);

subplot(2,2,3); imshow(K); title('Rotated Image 60deg');

R=imrotate(j,45);

subplot(2,2,4); imshow(R); title('Rotated Image 45deg');