PRACTICAL No. 6

AIM:- Brightness enhancement of an image, Contrast Manipulation, image negative.

Install Image Processing and Signal Processing packages and restart scilab.

Run this command on console: atomsRemove('scicv')

Restart scilab

And run code

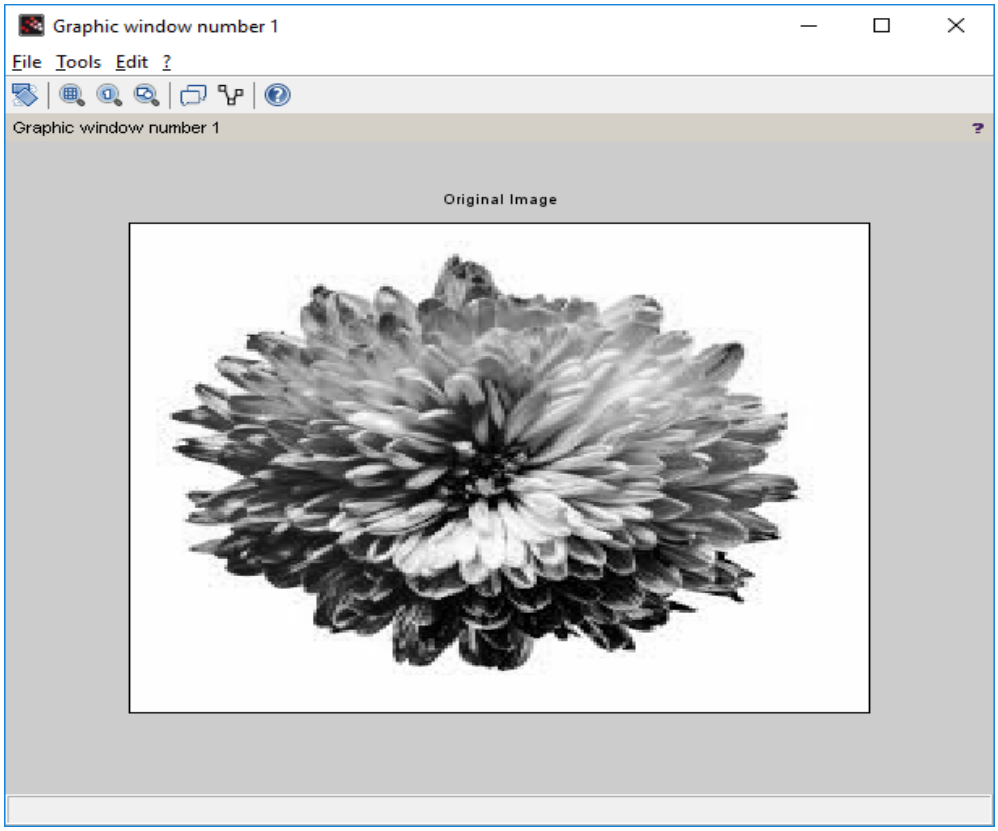
Brightness Enhancement

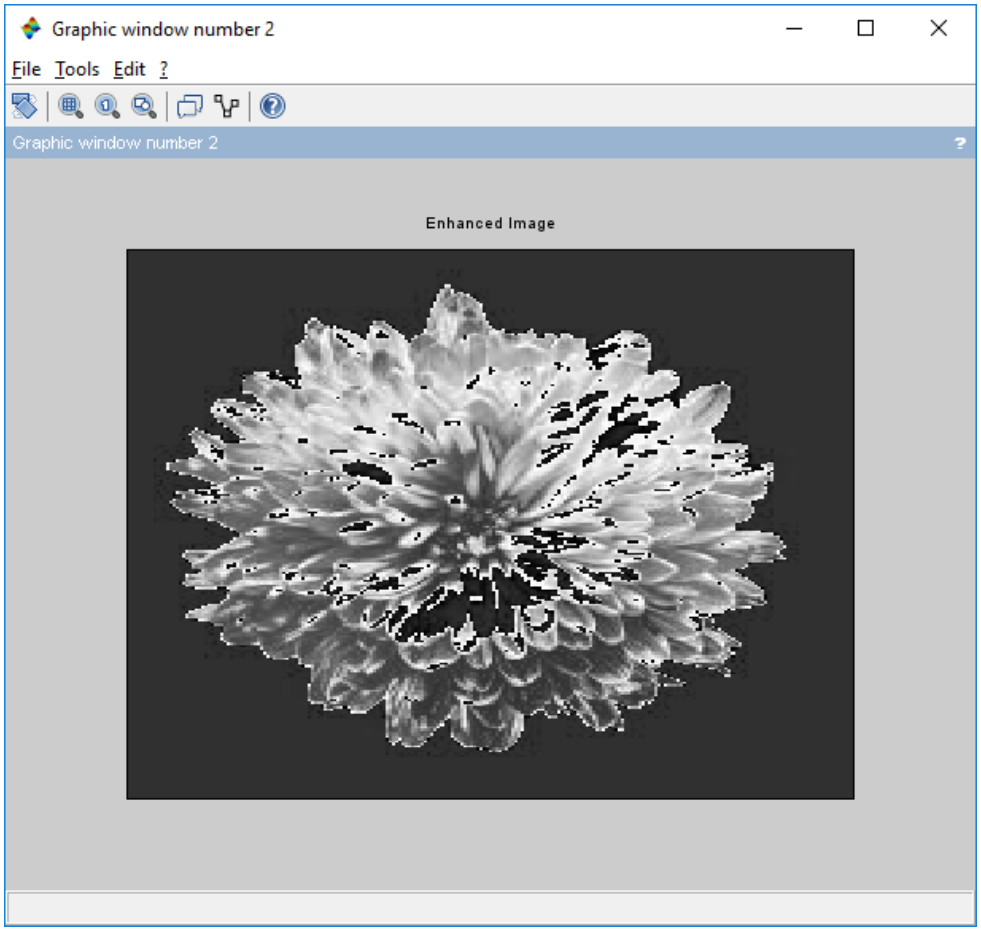
Code:-

```
Clc;

close;
a=imread('C:\Users\ADMIN\Desktop\flower.jpg');
a=rgb2gray(a);
b=double(a)+50;
b=uint8(b);
figure(1);
imshow(a);
title("Original Image")
figure(2);
imshow(b);
title("Enhanced Image")
```

Output:-

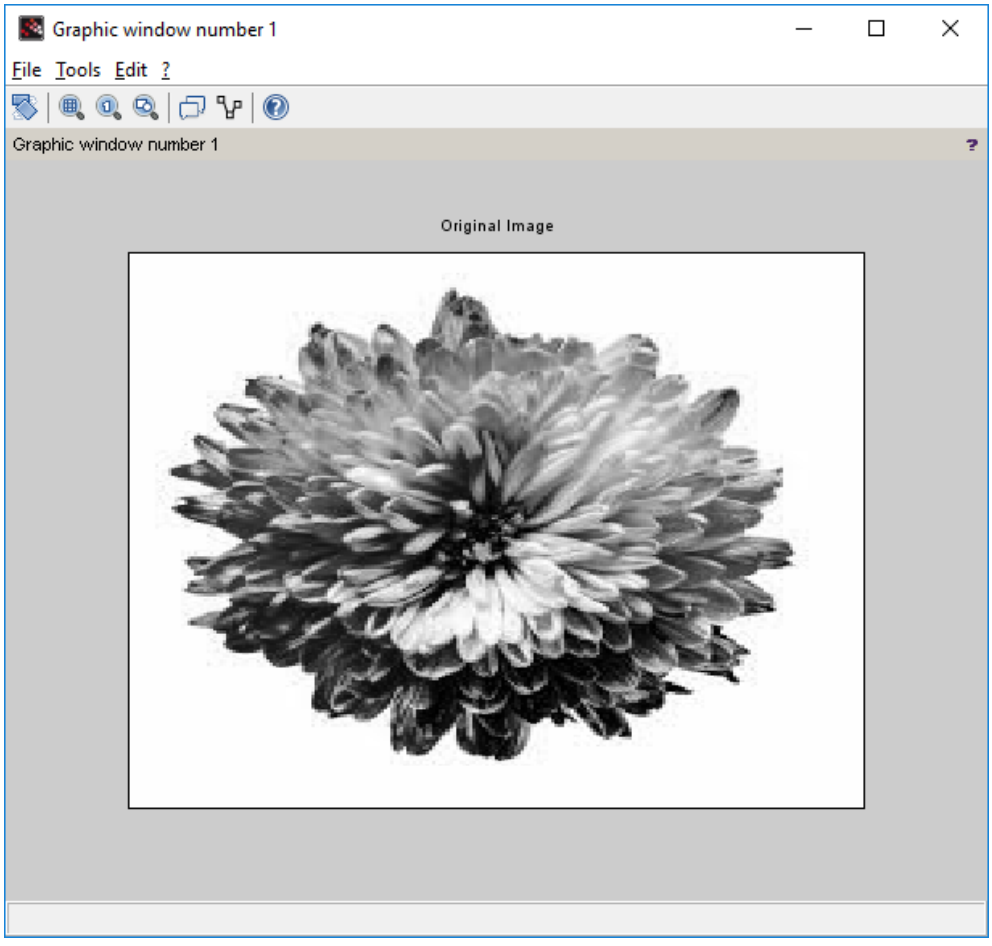

Graphic window number 1
File Tools Edit ?
Graphic window number 1
Original Image

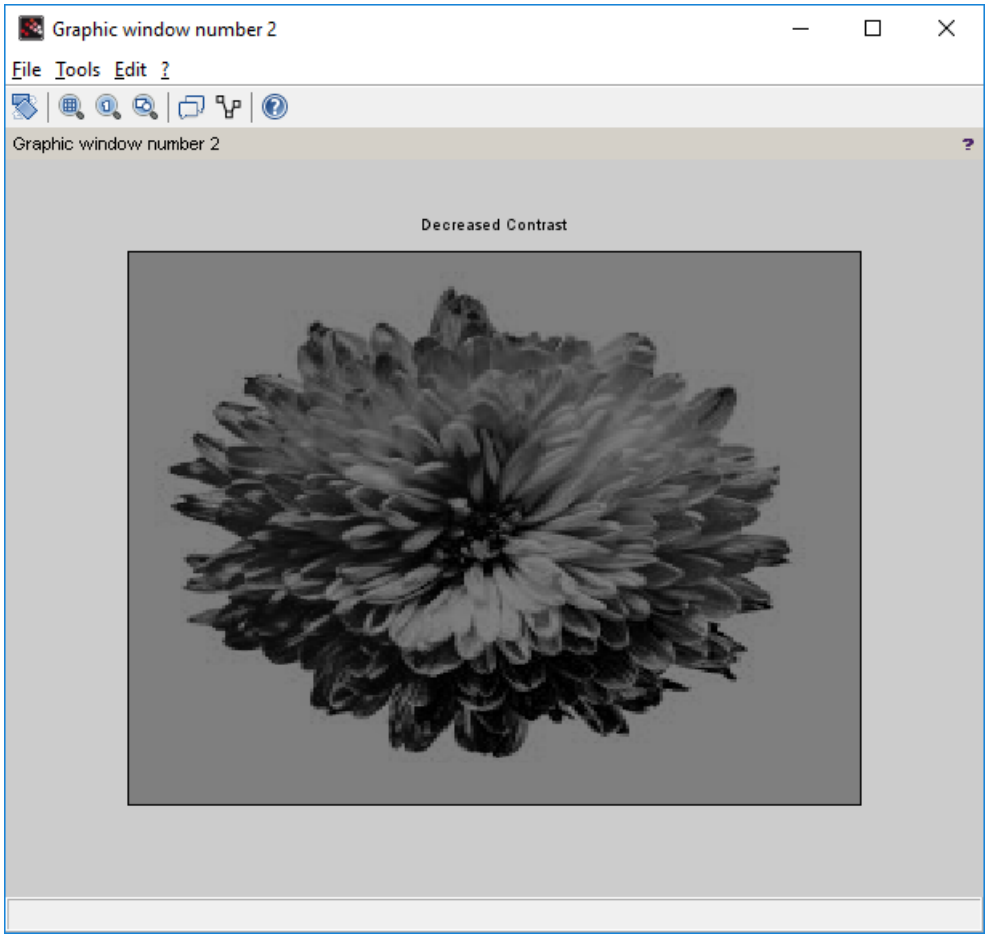

Graphic window number 2
File Tools Edit ?
Graphic window number 2
Enhanced Image

Contrast Manipulation

```
clc ;
close ;
a = imread('C:\Users\ADMIN\Desktop\flower.jpg');
a = rgb2gray(a);
b = double(a)*0.5;
b = uint8 (b)
c = double(b)*2;
c = uint8(c)
figure(1)
imshow(a);
title('Original Image')
figure(2)
imshow(b);
title('Decreased Contrast' )
figure(3)
imshow(c);
title('Increased Contrast')
```

Output:-




Graphic window number 2
File Tools Edit ?
Graphic window number 2
Decreased Contrast

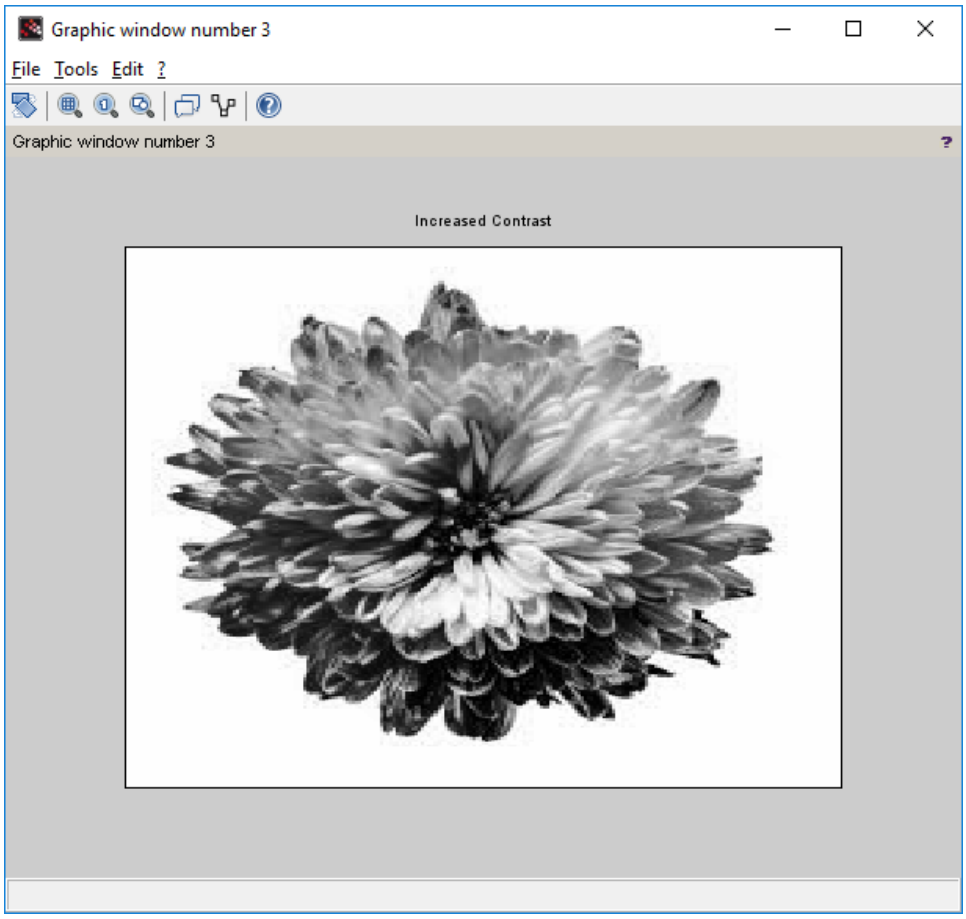
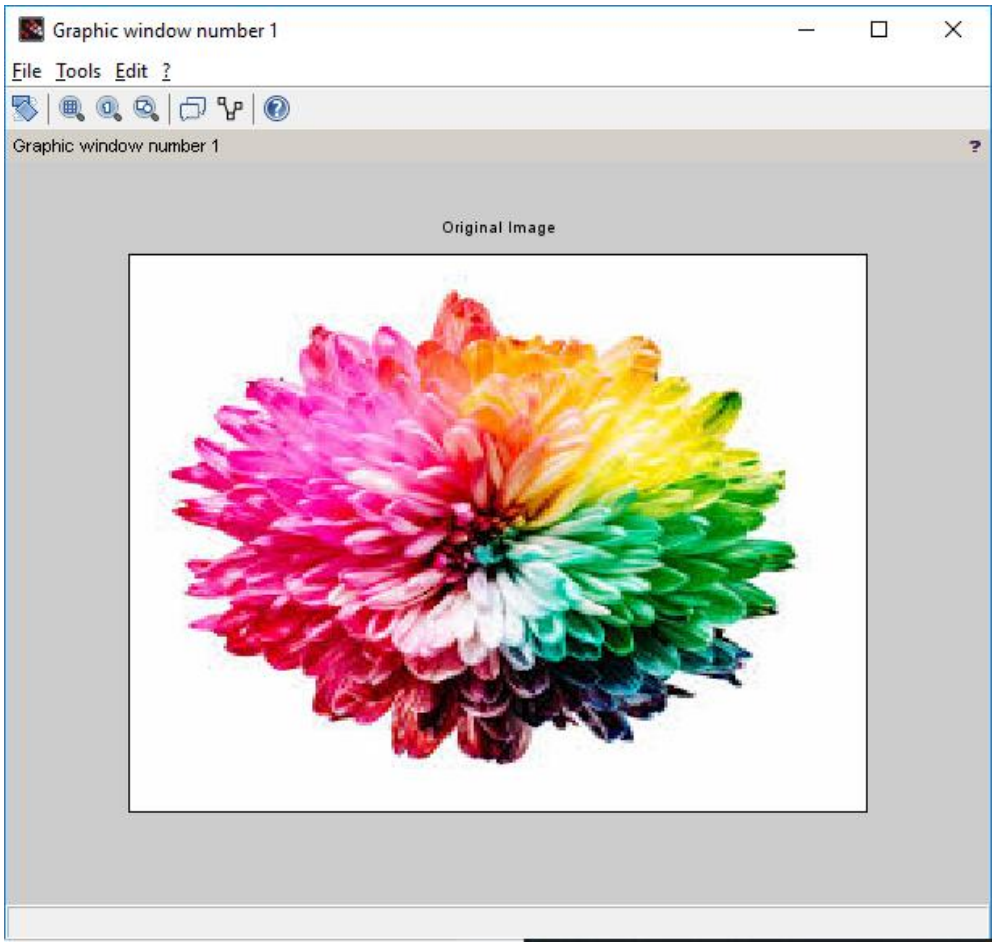

Graphic window number 3
File Tools Edit ?
Graphic window number 3
Increased Contrast

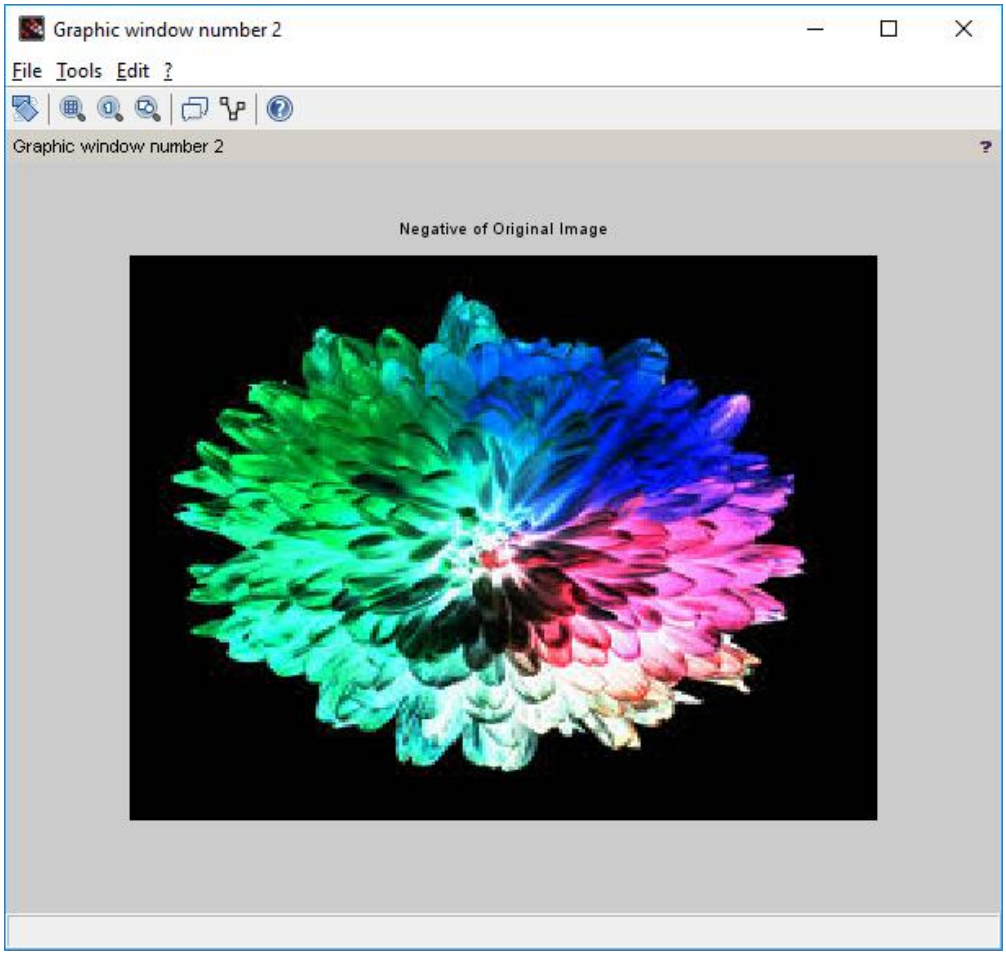
Image Negative

Code:-

```
clc;
close;
a = imread('C:\Users\ADMIN\Desktop\flower.jpg');
k = 255-double(a);
k = uint8(k);
figure(1)
imshow(a);
title('Original Image')
figure(2)
imshow(k);
title('Negative of Original Image')
```

Output:




Graphic window number 2
File Tools Edit ?
Graphic window number 2
Negative of Original Image