# COMPUTER GRAPHICS LAB ISA 2

**NAME: ANIMISH SHRIVANT** 

**ADMISSION NO.: 192019** 

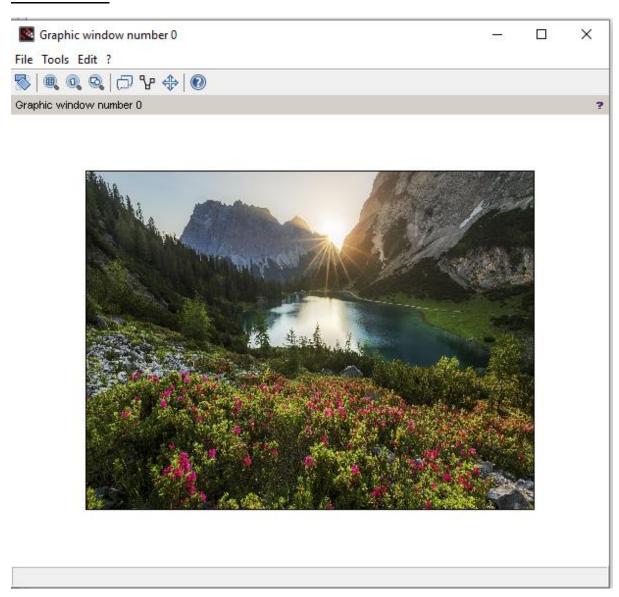
**CLASS: TYBCA** 

#### Q1. Write a program for image manipulation using Scilab.

a) Read a colored image.

a = imread('nature.jpg');

imshow(a)



b. Convert the colored image to grey scale image.

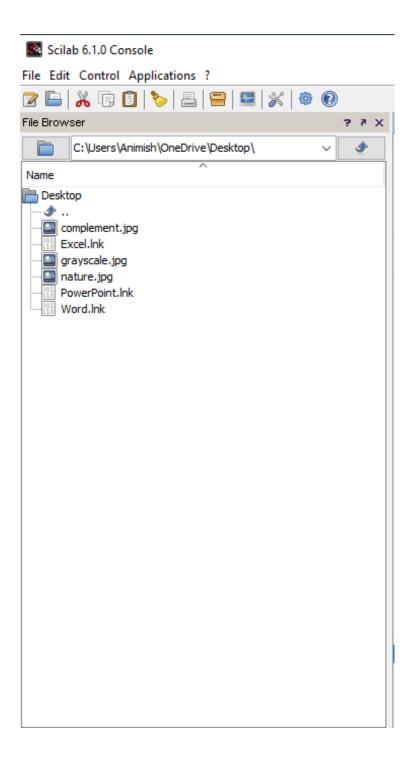
b = rgb2gray(a);

c. Generate complement of the colored image.

c = imcomplement(a);

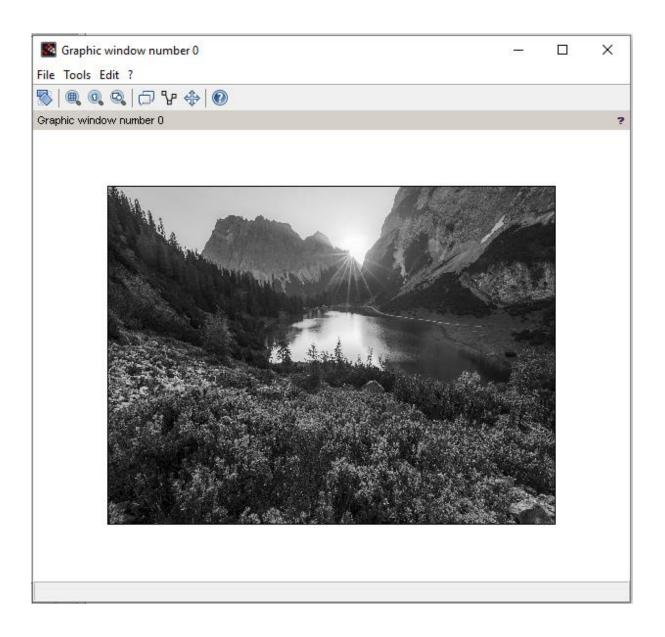
d. Write both the images in the destination folder.

imwrite(b,'grayscale.jpg')
imwrite(c,'complement.jpg')

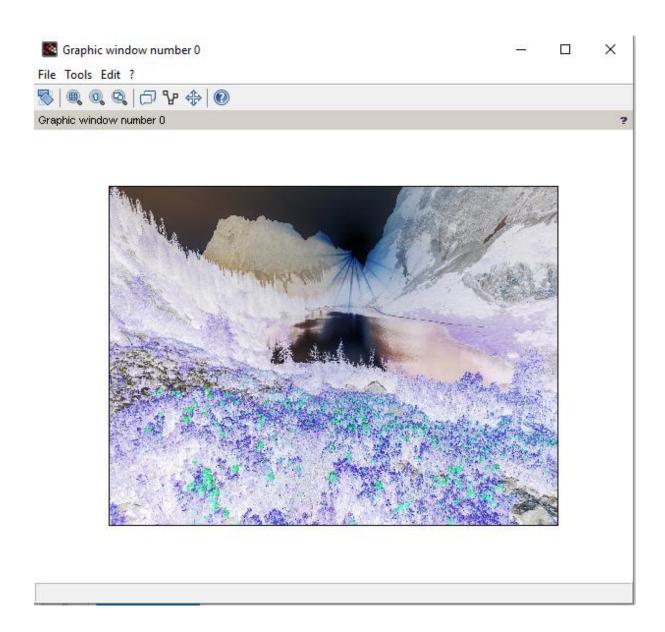


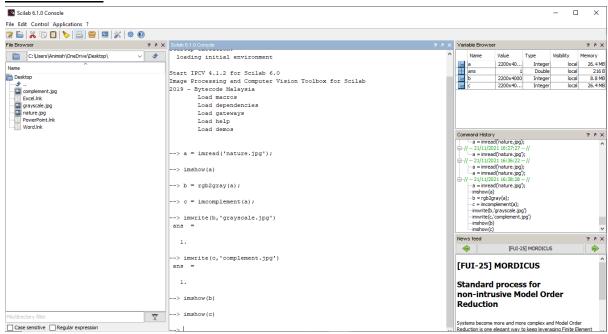
#### e. Display both the images.

--> imshow(b)



--> imshow(c)





## **Scilab Notes**

```
192019.sce (C:\Users\Animish\OneDrive\Desktop\192019.sce) - SciNotes
                                                                               Х
File Edit Format Options Window Execute ?
192019.sce (C:\Users\Animish\OneDrive\Desktop\192019.sce) - SciNotes
192019.sce 💥
1 //Program to manipulate images.
2
3 //Read-a-colored-image
4 a -= · imread('nature.jpg');
5 imshow(a)
 6
7 //Convert - the - colored - image - to - grey - scale - image
8 b = \frac{\text{rqb2qray}}{a};
9
10 //Generate.complement.of.the.colored.image
11 C -= · imcomplement(a);
12
13 //Write-both-the-images-in-the-destination-folder
14 imwrite(b, 'grayscale.jpg')
15 imwrite(c,'complement.jpg')
16
17 //Display.both.the.images
18 imshow(b)
19 imshow(c)
20
```