#### **Practical 6**

Aim: Brightness enhancement of an image, Contrast Manipulation, image negative.

Install Image Processing and Signal Processing packges and restart scilab.

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

Restart scilab

And run code

#### **Brightness Enhancement**

```
Code:
```

```
close;
a=imread("C:\Users\admin\Desktop\dog.jpg");
a=rgb2gray(a);
b=double(a)+50;
b=uint8(b);
c=double(a)-50;
c=uint8(c);
figure(1);
imshow(a);
title("Original Image");
figure(2);
imshow(b);
```

## **Output:**

title("Enhanced Image");







## **Contrast Manipulation**

## **Code:**

clc;

close;

a=<u>imread</u>("C:\Users\admin\Desktop\dog.jpg");

a=<u>rgb2gray(a);</u>

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");

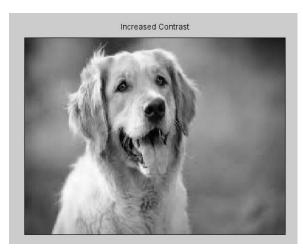
figure(3);

imshow(c);

title("Increased Contrast");

## Output:







# **Image Negative**

## **Code:**

clc;

clear;

 $a = \underline{imread}("C:\Users\admin\Desktop\dog.jpg");$ 

k=255-double(a);

k=uint8(k);

figure(1);

imshow(a);

title("Original Image");

figure(2);

imshow(k);

title("Negative Image of Original Image");



