

Practical 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('sciv')`

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);  
title("Enhanced Image");
```

Output:

Original Image



Enhanced Image



Diminish Image



Contrast Manipulation

Code:

```
clc;  
close;  
a=imread("C:\Users\admin\Desktop\dog.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:





Image Negative

Code:

```
clc;  
clear;  
a=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");
```

Original Image



Negative Image of Original Image

