Practical 11
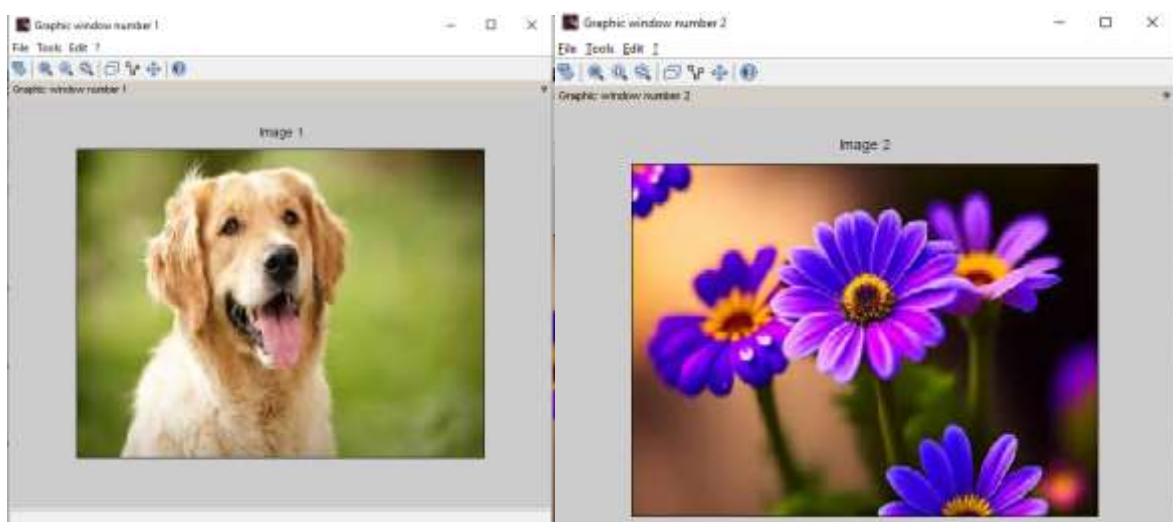
Aim: Image Arithmetic

Image Addition

Code:

clc;

clear;

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

b=imread("C:\Users\admin\Desktop\f1.jpg");

a = imresize(a, [256, 256]);

b = imresize(b, [256, 256]);

c = imadd(a,b);

figure(1);

imshow(a);

title("Image 1");

figure(1);

imshow(b);

title("Image 2");
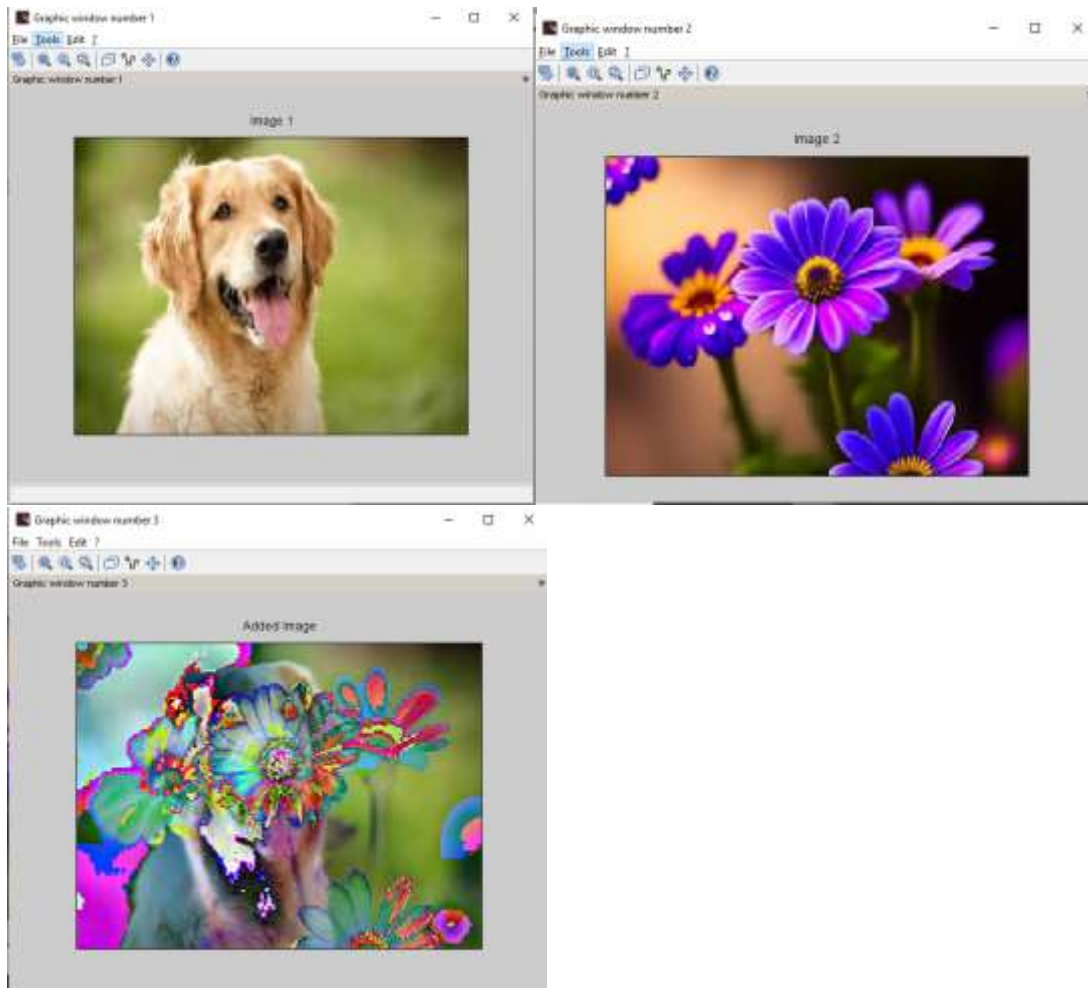
figure(3);

imshow(c);

title("Added Image");

Output:

Image Subtraction

Code:

clc;

clear;

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

b=imread("C:\Users\admin\Desktop\f1.jpg");

a = imresize(a, [256, 256]);

b = imresize(b, [256, 256]);

c = a-b;

figure(1);

imshow(a);

title("Image 1");

figure(2);

imshow(b);

title("Image 2");
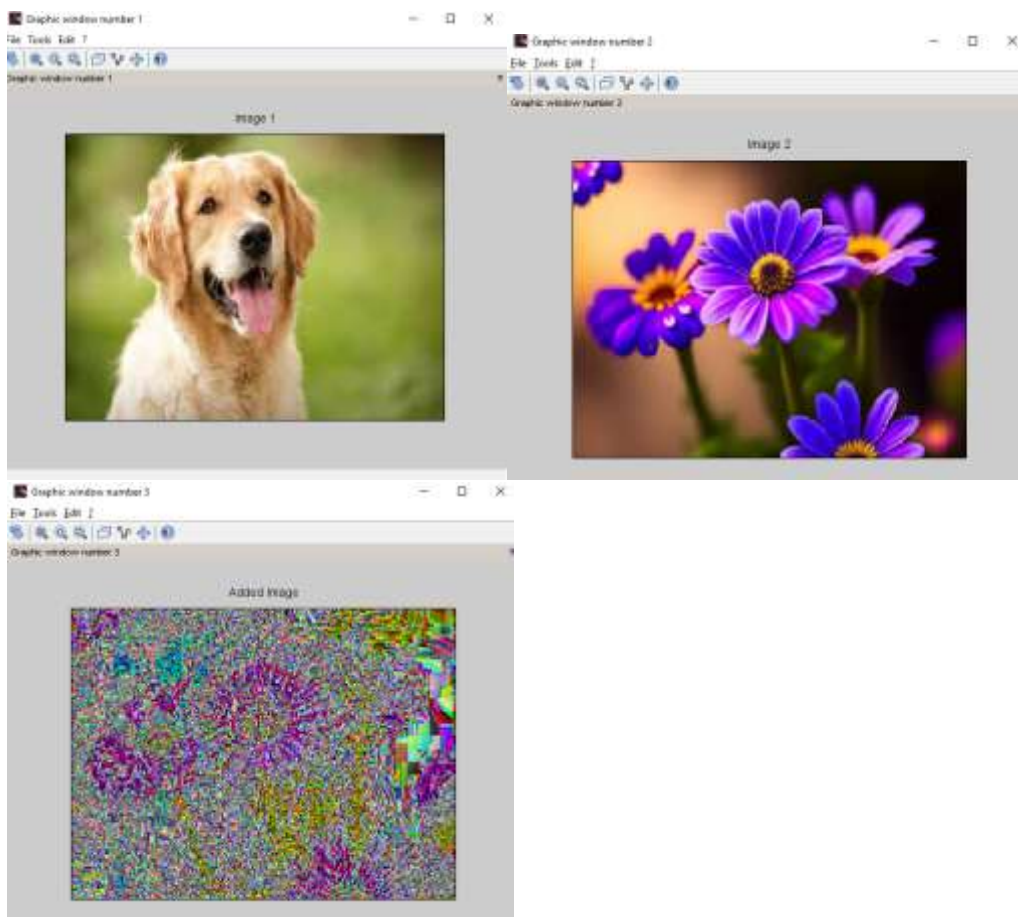
figure(3);

imshow(c);

title("Added Image");

Output:

Image multiplication

Code:

clc;

clear;

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

b=imread("C:\Users\admin\Desktop\f1.jpg");

a = imresize(a, [256, 256]);

b = imresize(b, [256, 256]);

c = a.*b;

figure(1);

imshow(a);

title("Image 1");

figure(2);

imshow(b);

title("Image 2");

figure(3);

imshow(c);

title("Added Image");

Output:

Image Division

Code:

```
clc;

clear;

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

b=imread("C:\Users\admin\Desktop\f1.jpg");

a = imresize(a, [256, 256]);
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b = imresize(b, [256, 256]);

c = a./b;

figure(1);

imshow(a);

title("Image 1");

figure(2);

imshow(b);

title("Image 2");

figure(3);

imshow(c);

title("Added Image");

Output: