PRACTICAL No. 8

AIM:- Image Segmentation.

Install Image Processing and Signal Processing packages and restart scilab.

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

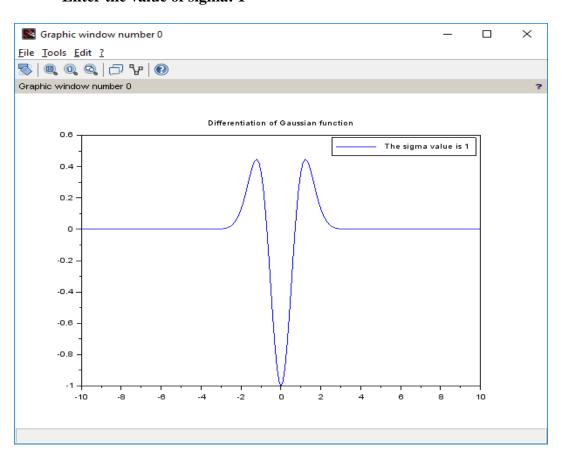
Restart scilab

And run code

(a) Differentiation of Gaussian function.

Output:-

Enter the value of sigma: 1

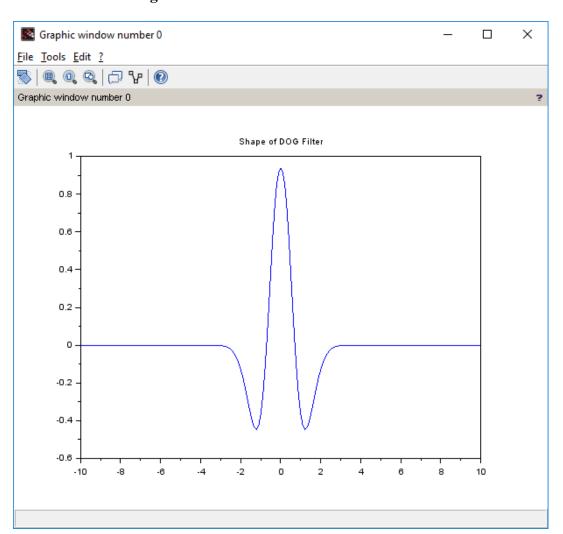


(b) Differentiation of Gaussian Filter function

Output:

Enter the value of sigma1: 4

Enter the value of sigma2: 1



(c) Edge Detection using Different Edge detectors

```
close;
clc;
a = \underline{imread}('C:\Users\ADMIN\Desktop\flower.jpg');
a = rgb2gray(a);
c = edge(a, 'sobel');
d = \overline{edge}(a, 'prewitt');
e = \underline{edge}(a, 'log');
f = \underline{edge} (a, 'canny');
imshow(a)
title('Original Image')
figure
<u>imshow</u>(c)
title('Sobel')
figure
<u>imshow</u>(d)
title('prewitt')
figure
imshow(e)
title('Log')
figure
<u>imshow</u>(f)
title('Canny')
```

Output:

