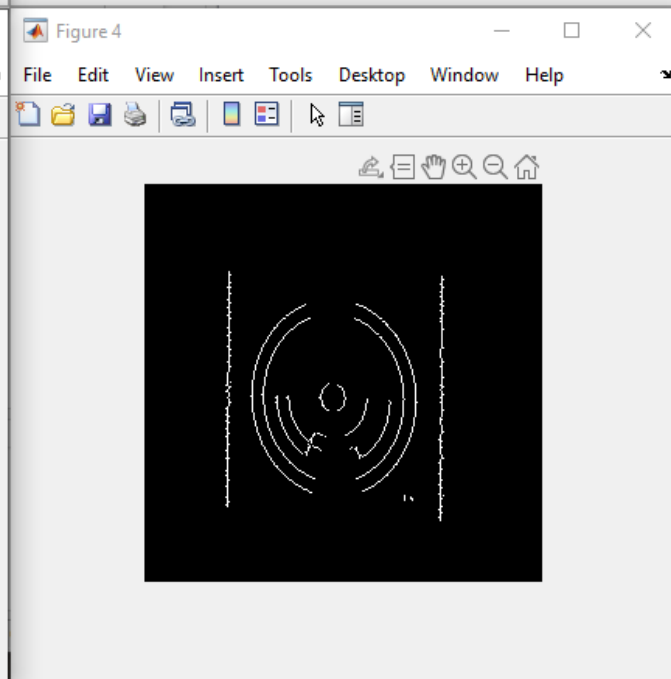
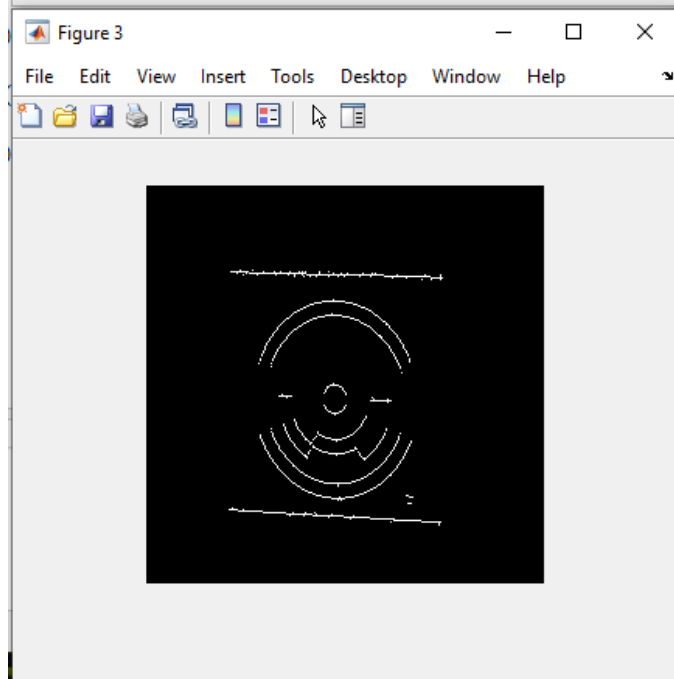
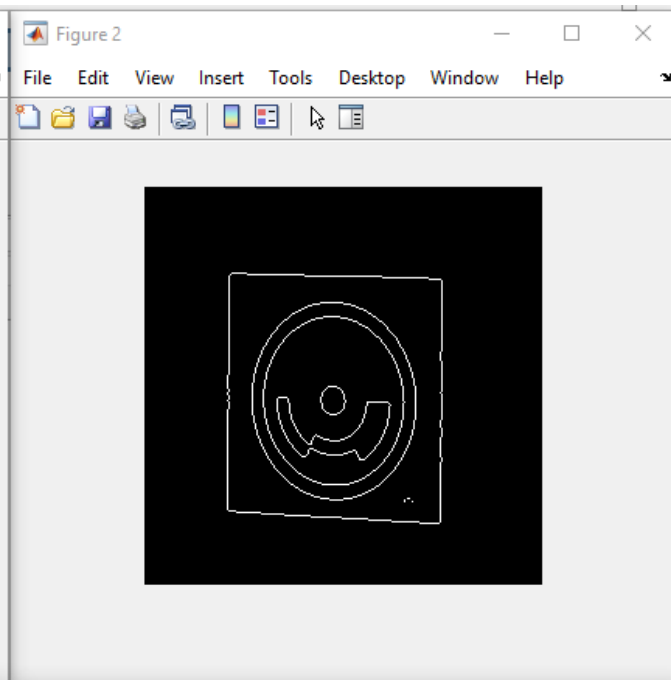
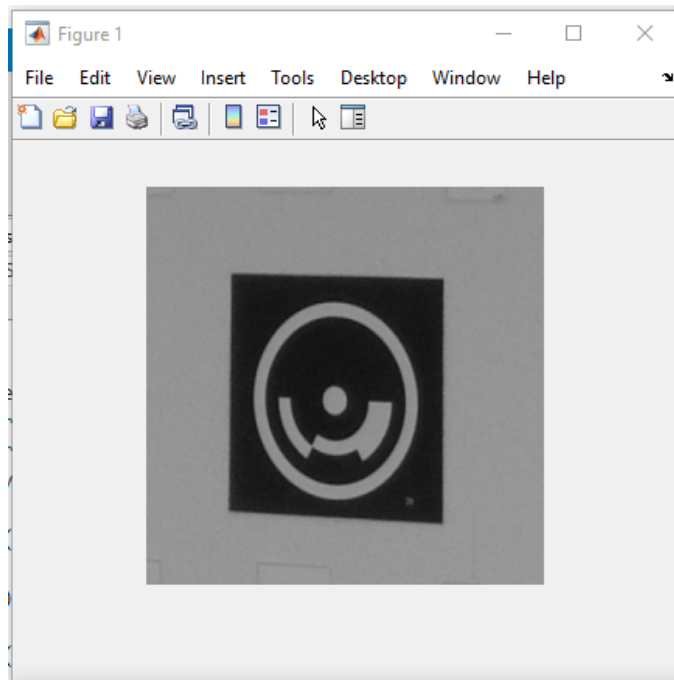


COMP 4687

Week 7 Practice

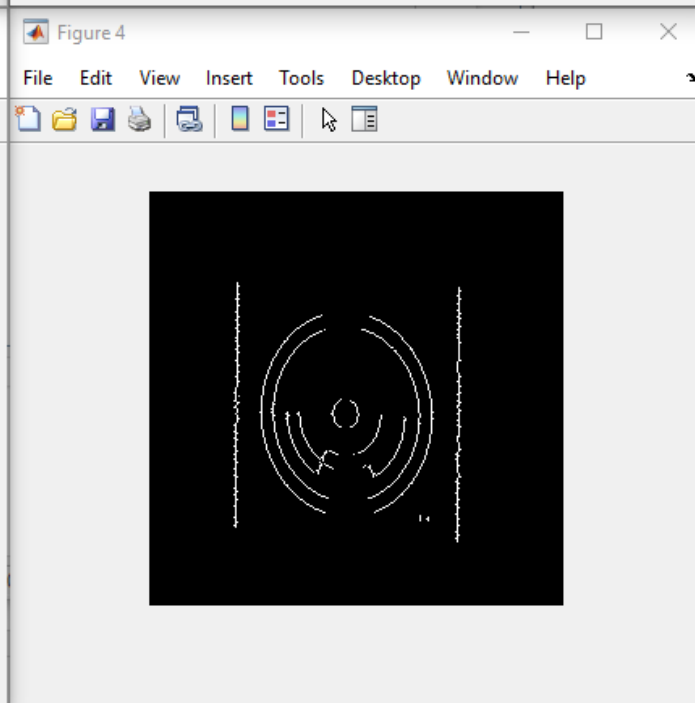
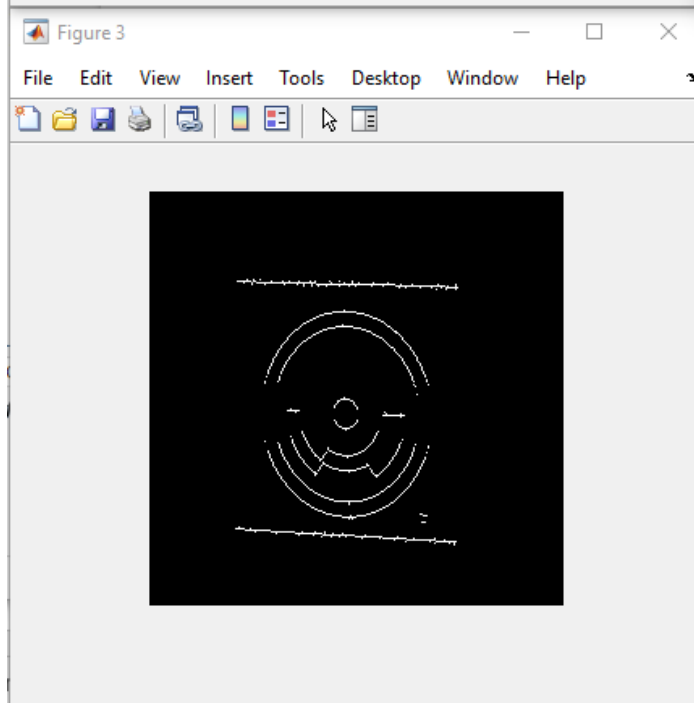
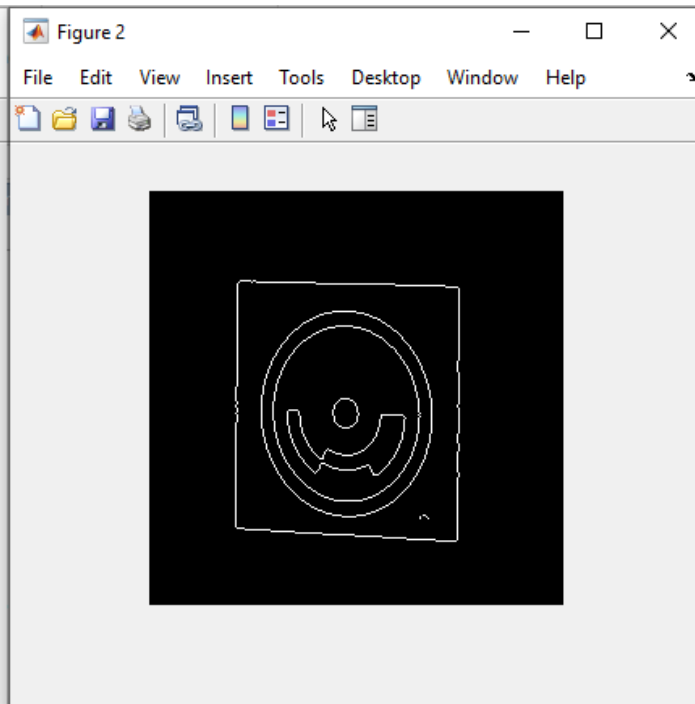
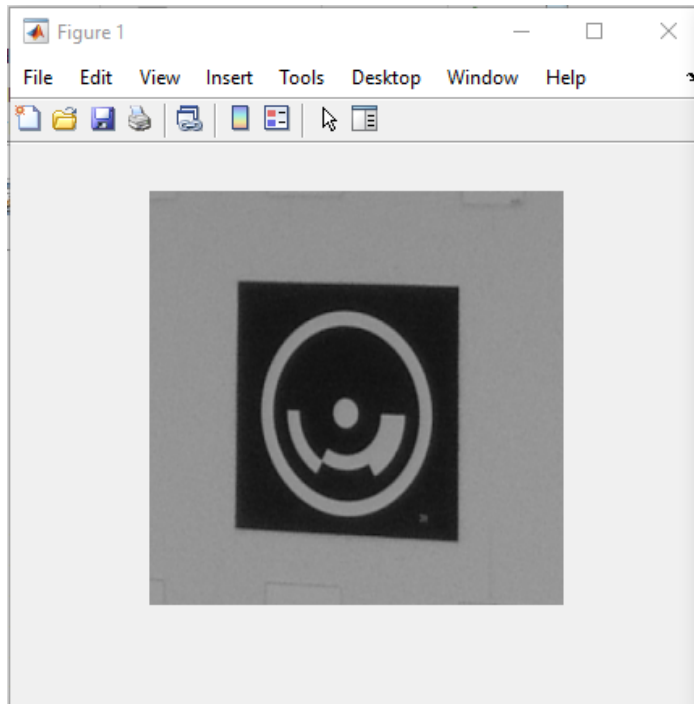
1) Prewitt

```
m0701_Prewitt.m  x  +
1      clc
2      clear all
3      imgGray = imread('image1.bmp');
4      %imgGray = imread('image3.bmp');
5      %imgGray = imread('Cyprus2.png');
6      imshow(imgGray);
7
8      image2 = edge(imgGray,"prewitt");
9      figure
10     imshow(image2);
11
12     image3 = edge(imgGray,"prewitt","horizontal");
13     figure
14     imshow(image3);
15
16     image4 = edge(imgGray,"prewitt","vertical");
17     figure
18     imshow(image4);
```



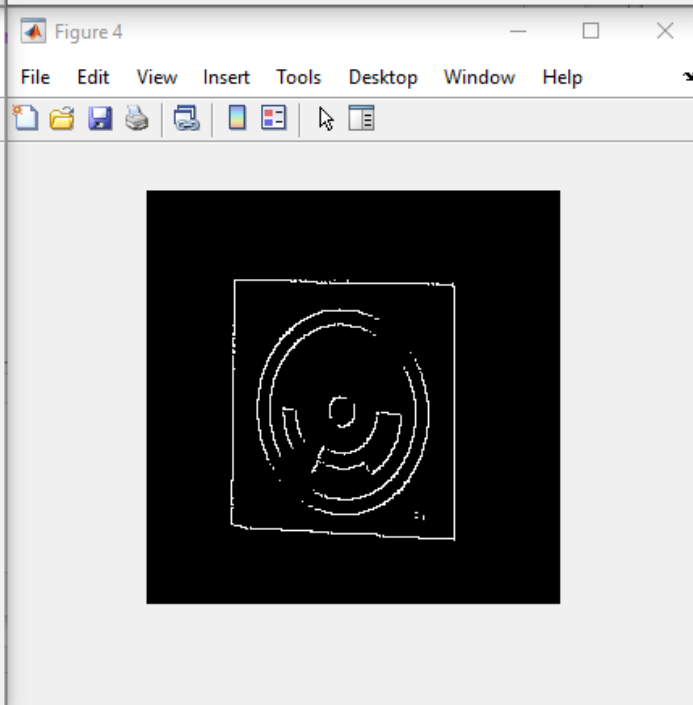
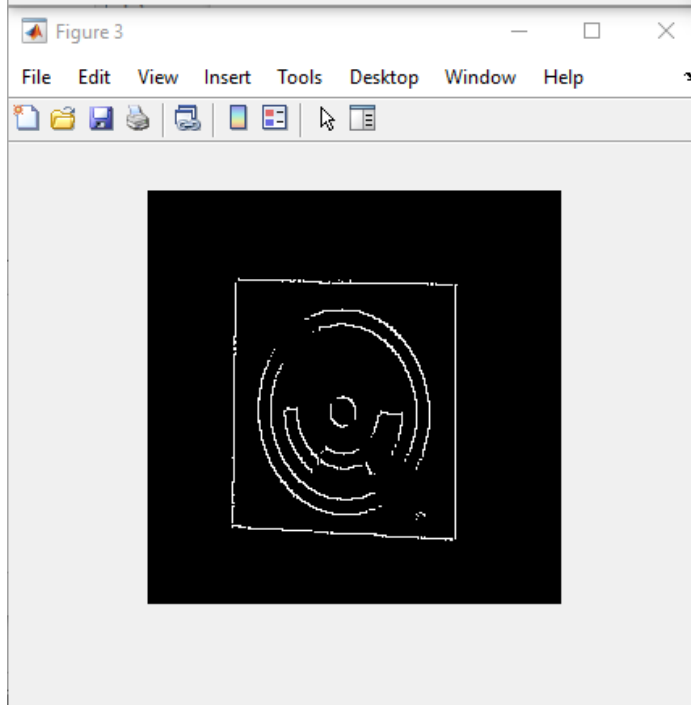
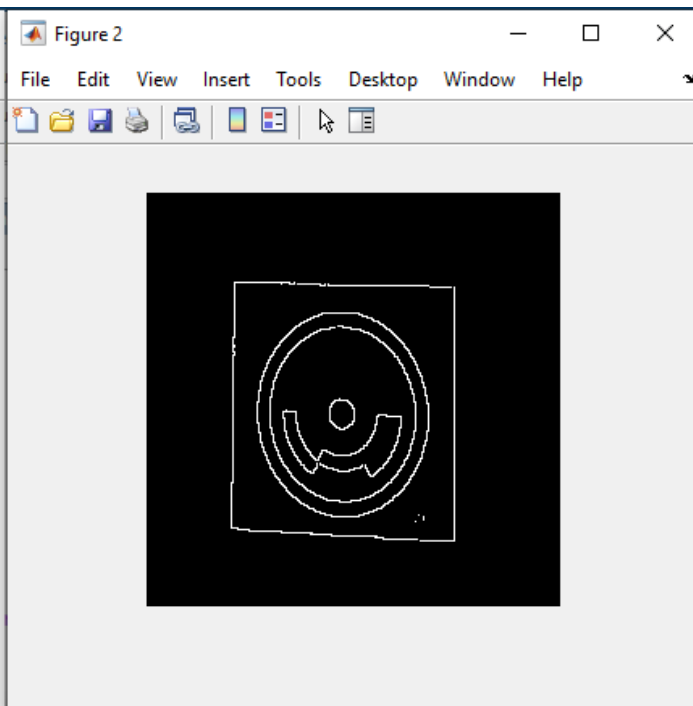
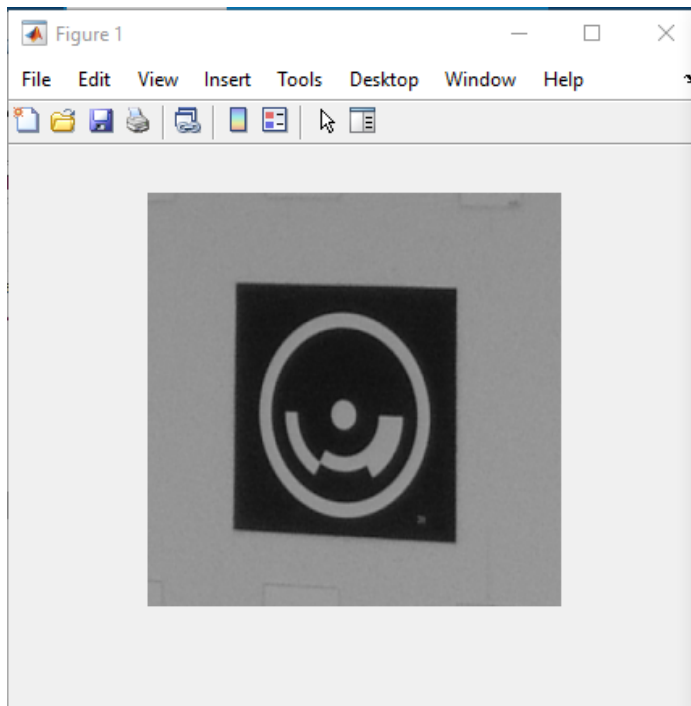
2) Sobel

```
m0702_Sobel.m x +
1      clc
2      clear all
3      imgGray = imread('image1.bmp');
4      %imgGray = imread('image3.bmp');
5      %imgGray = imread('Cyprus2.png');
6      imshow(imgGray);
7
8      image2 = edge(imgGray,"sobel");
9      figure
10     imshow(image2);
11
12     image3 = edge(imgGray,"sobel","horizontal");
13     figure
14     imshow(image3);
15
16     image4 = edge(imgGray,"sobel","vertical");
17     figure
18     imshow(image4);
```



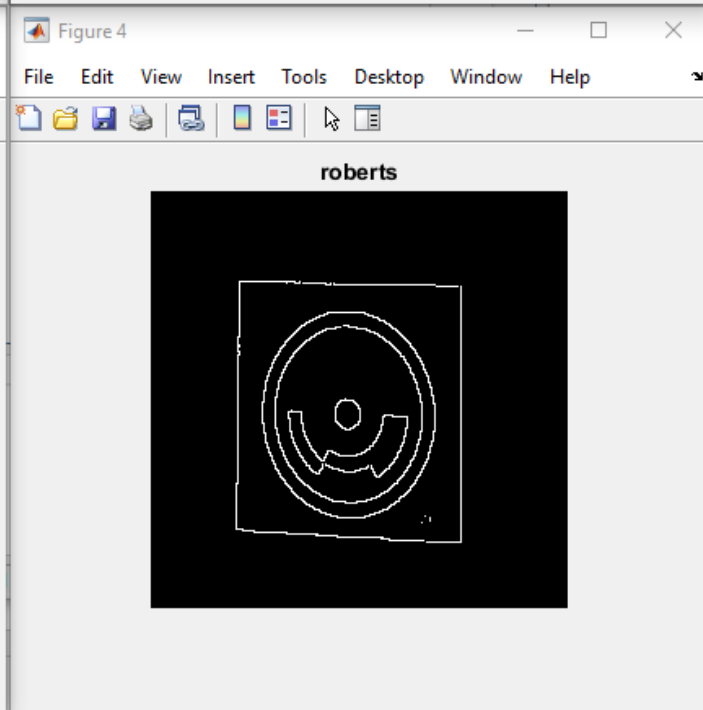
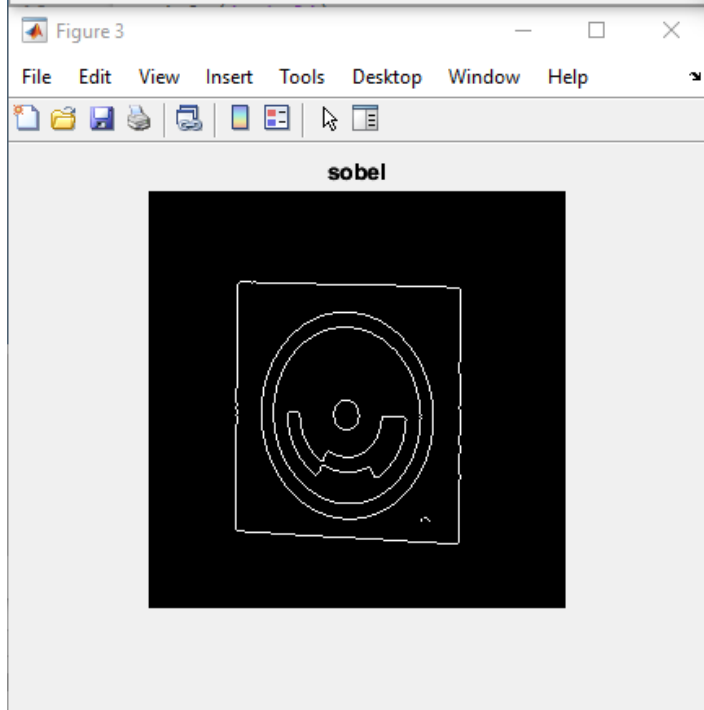
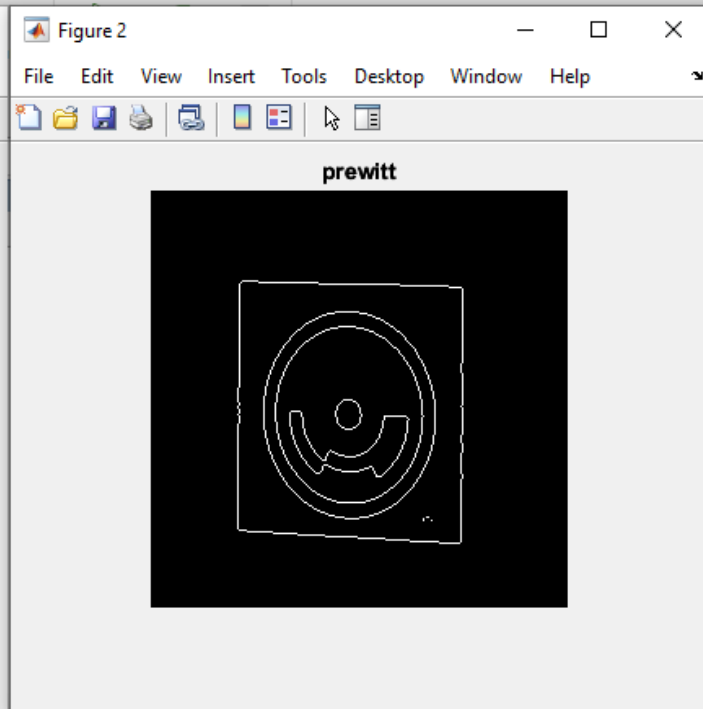
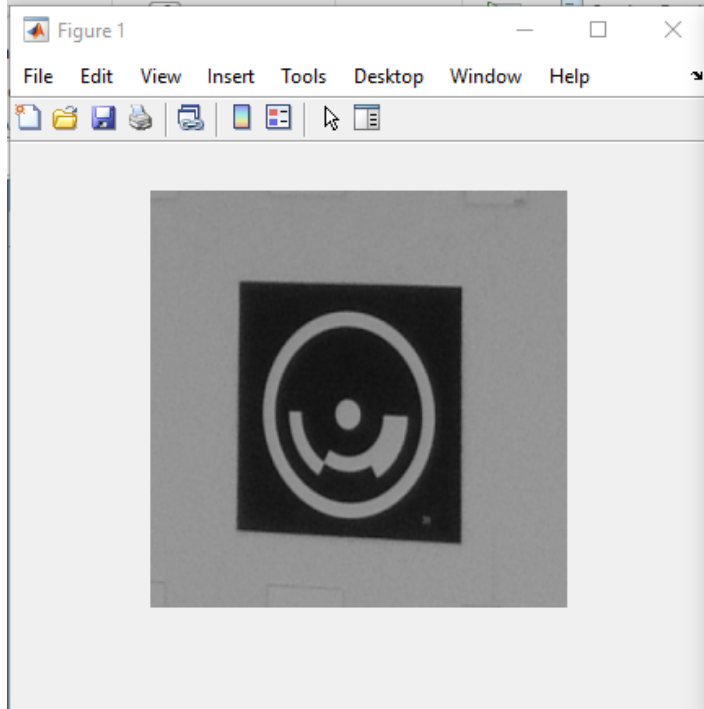
3) Roberts

```
m0703_Roberts.m  x  +
1      clc
2      clear all
3      imgGray = imread('image1.bmp');
4      %imgGray = imread('image3.bmp');
5      %imgGray = imread('Cyprus2.png');
6      imshow(imgGray);
7
8      image2 = edge(imgGray,"roberts");
9      figure
10     imshow(image2);
11
12     image3 = edge(imgGray,"roberts","horizontal");
13     figure
14     imshow(image3);
15
16     image4 = edge(imgGray,"roberts","vertical");
17     figure
18     imshow(image4);
```



4) ALL

```
m0704_All.m  x  +
1      clc
2      clear all
3      imgGray = imread('image1.bmp');
4      %imgGray = imread('image3.bmp');
5      %imgGray = imread('Cyprus2.png');
6      imshow(imgGray);
7
8      image2 = edge(imgGray,"prewitt");
9      figure
10     imshow(image2);
11     title('prewitt')
12
13     image3 = edge(imgGray,"sobel");
14     figure
15     imshow(image3);
16     title('sobel')
17
18     image4 = edge(imgGray,"roberts");
19     figure
20     imshow(image4);
21     title('roberts')
```

5) LoG

```
m0705_Log.m  x  +
1  clc
2  clear all
3  %imgGray = imread('image1.bmp');
4  imgGray = imread('image3.bmp');
5  %imgGray = imread('Cyprus2.png');
6  imshow(imgGray);
7
8  image2 = edge(imgGray, "log");
9  figure
10 imshow(image2);
11 title('LoG')
12
13
14
```

Figure 1

File Edit View Insert Tools Desktop Window Help

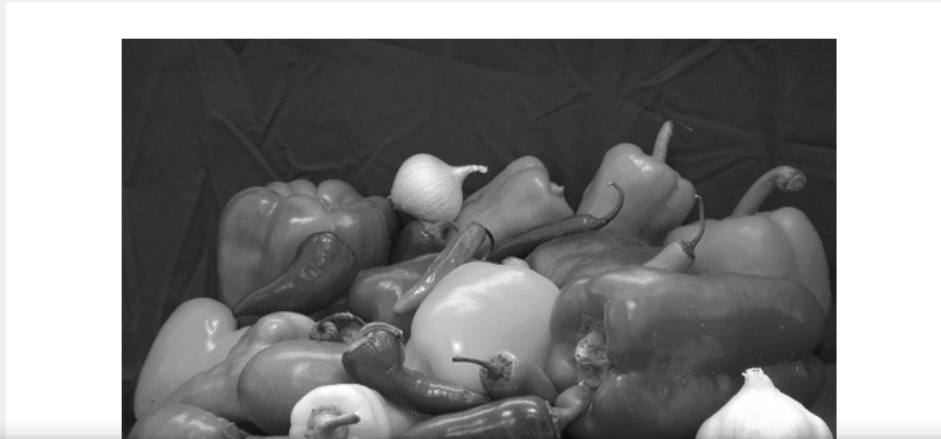


Figure 2

File Edit View Insert Tools Desktop Window Help



LoG

