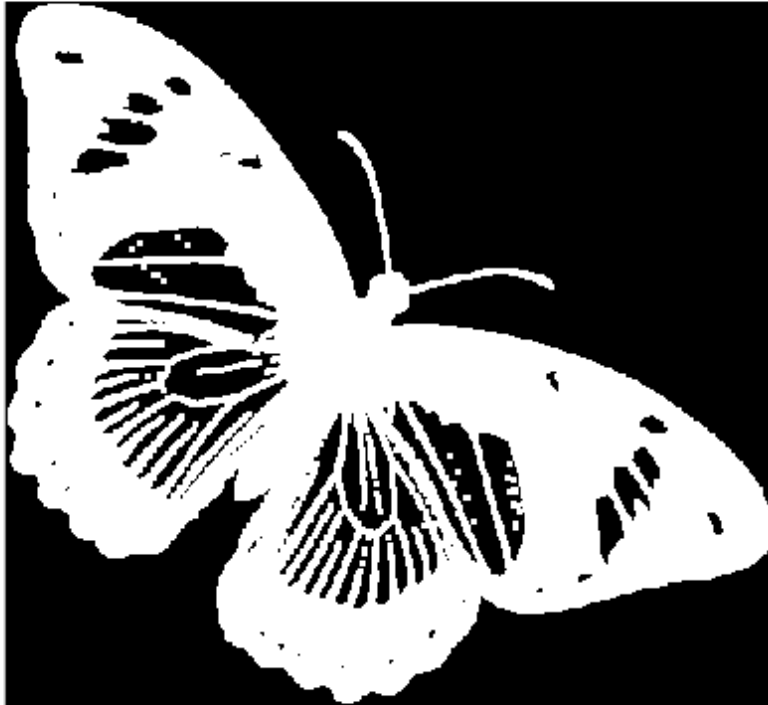


```
%Assignment 7
%Elif KIR

%%read and save the binary image
img=imread("butterfly.gif");
imshow(img,[]);
```



```
%1
%%a

%radius of disk is 2 is enough to fill the small holes
se=strel("disk",2);
dilated_img=imdilate(img,se);
imshow(dilated_img,[])
```



```
%%b
se2=strel("rectangle",[4,5]);
eroded_img=imerode(dilated_img,se2);
imshow(eroded_img,[])
```



```
%%C
se3=strel("disk",3);
opened_img=imopen(img,se3);
imshow(opened_img,[])
```

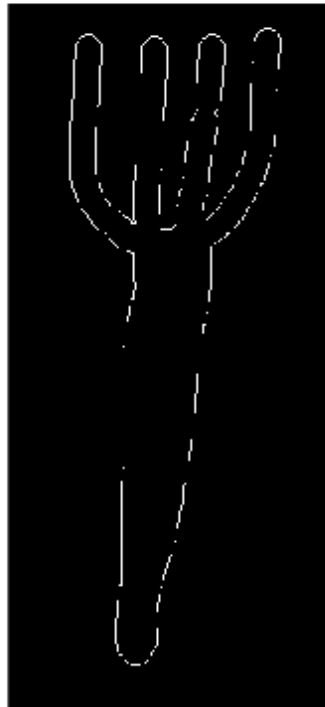


```
%2  
img2=imread("fork.gif");  
imshow(img2,[])
```



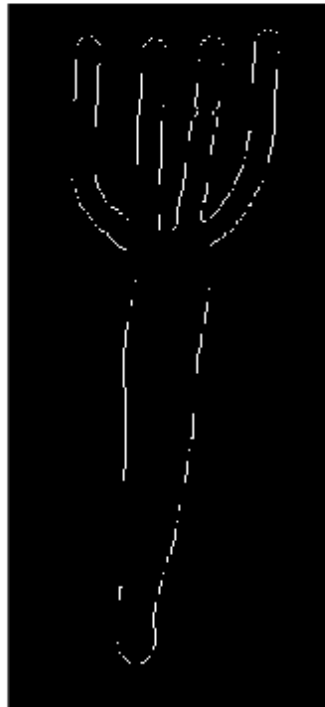
```
%%external border
```

```
se=strel("disk",1);  
dilated_img2=imdilate(img2,se);  
outer_border=dilated_img2-img2;  
imshow(outer_border,[])
```



```
%%internal boundary
```

```
eroded_img2=imerode(img2,se);  
inner_border=img2-eroded_img2;  
imshow(inner_border,[])
```



```
%% gradient_boundary  
  
gradient_border=inner_border+outer_border;  
imshow(gradient_border,[])
```

