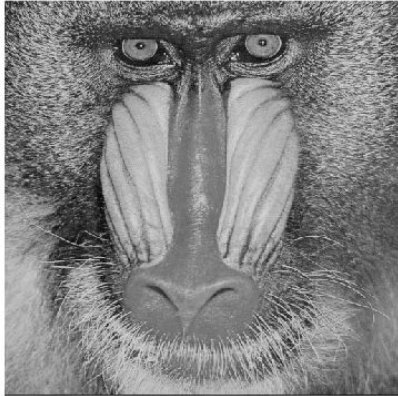


Question 1

Read input file:

```
im = imread("/MATLAB Drive/images/mandrill.tif");  
imshow(im)
```



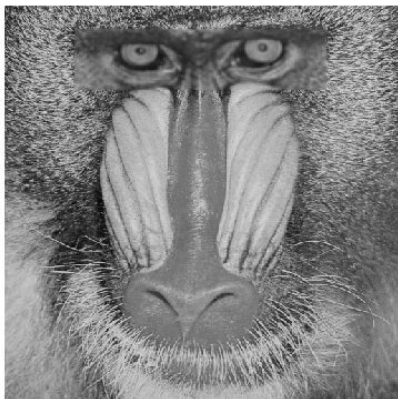
Create a binary mask containing eyes:

```
yi = [91,91,417,417];  
xi = [30,110,110,30];  
roi = roipoly(im,yi,xi);
```

Low pass filters:

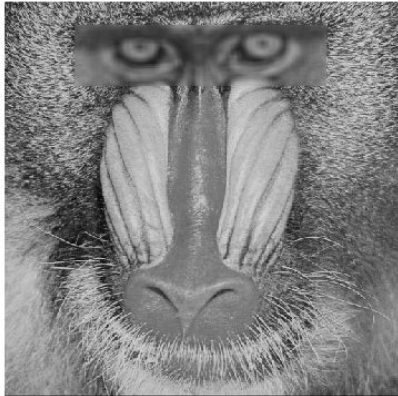
Average:

```
a = fspecial('average',5);  
ima = roifilt2(a,im,roi);  
imshow(ima)
```



Gaussian:

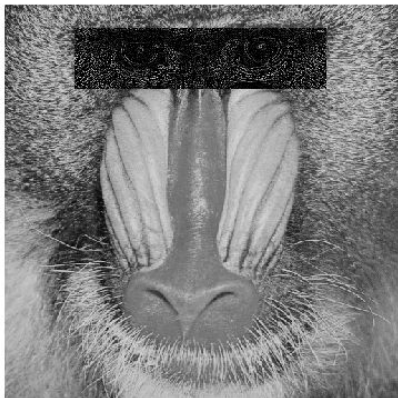
```
g = fspecial('gaussian',10,50);  
img = roifilt2(g,im,roi);  
imshow(img)
```



High pass filters:

Laplacian:

```
l = fspecial('laplacian',0.2);  
iml = roifilt2(l,im,roi);  
imshow(iml)
```



Prewitt:

```
p = fspecial('prewitt');  
imp = roifilt2(p,im,roi);  
imshow(imp)
```

