**FACE DETECTION**

FDetect = vision.CascadeObjectDetector;

I = imread('Image\_Name.format');

BB = step(FDetect,I);

figure,

imshow(I);

hold on

for i = 1:size(BB,1)

rectangle('Position',BB(i,:),'LineWidth',5,'LineStyle','-','EdgeColor','r');

end

title('Face Detection');

hold off;

**As for the case of mouth, eyes and nose detection, in the place of FDetect in the above code, we should have as respectively:**

* For detecting the Mouth - MouthDetect
* For detecting the Eye - EyeDetect
* For detecting the Nose - NoseDetect