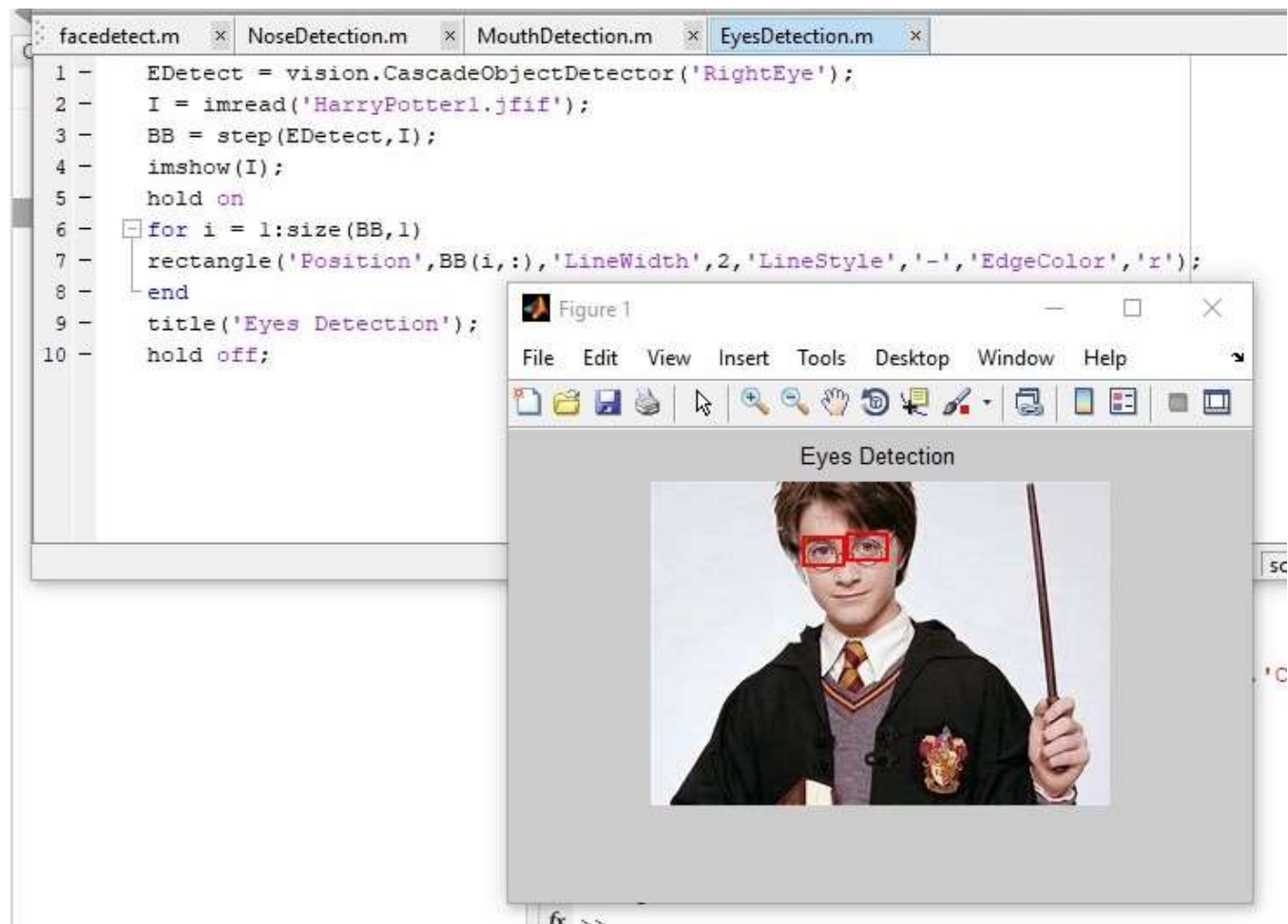# Assignment1: Write a Program to Detect Eyes, Nose and Mouth.

## Program to Detect Eyes-

```
EDetect = vision.CascadeObjectDetector('RightEye');
I = imread('HarryPotter1.jfif');
BB = step(EDetect,I);
imshow(I);
hold on
for i = 1:size(BB,1)
rectangle('Position',BB(i,:),'LineWidth',2,'LineStyle','-','EdgeColor','r');
end
title('Eyes Detection');
hold off;
```
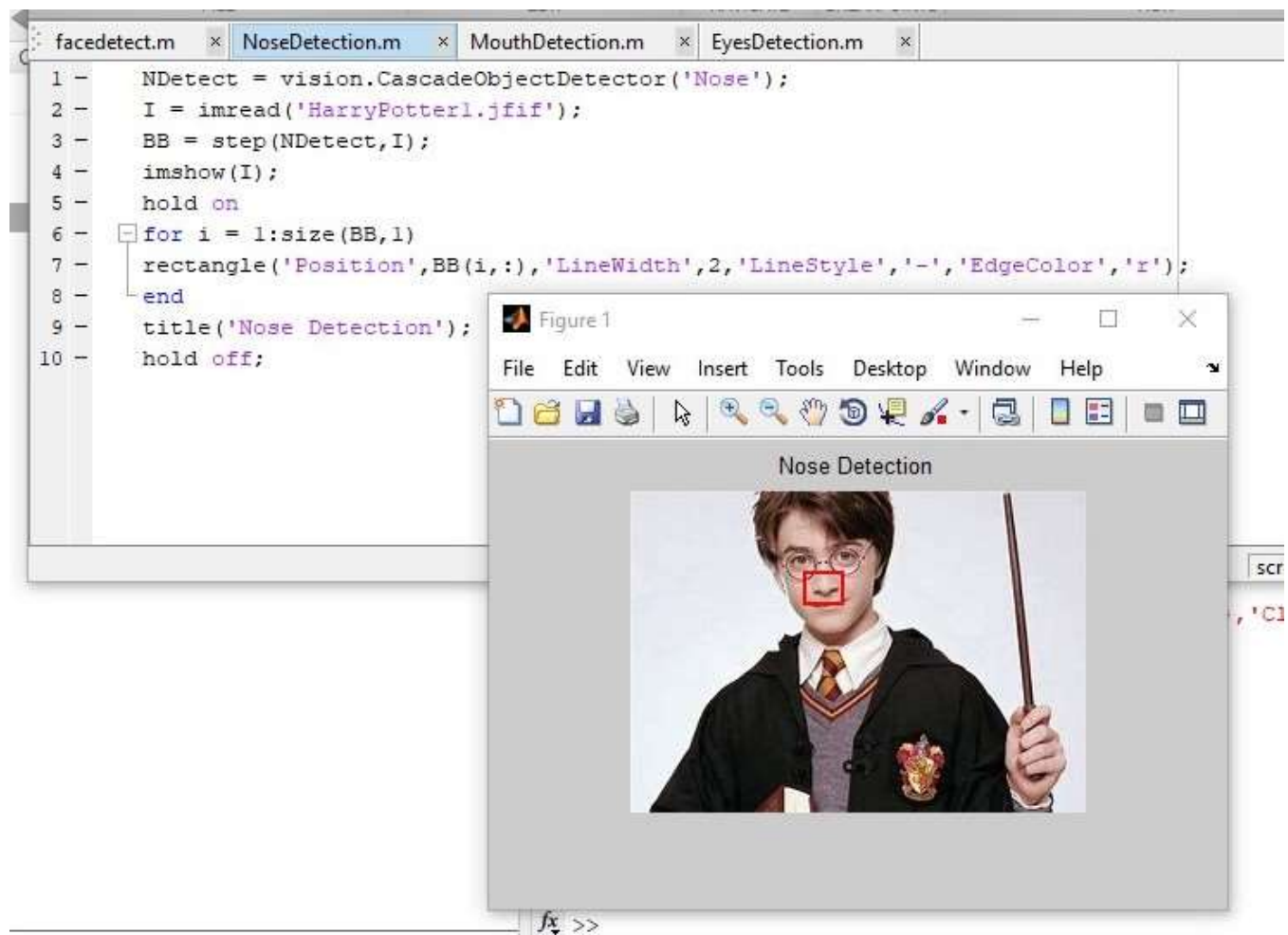
## Output:

## Program to Detect Nose-

```
NDetect = vision.CascadeObjectDetector('Nose');
I = imread('HarryPotter1.jfif');
BB = step(NDetect,I);
imshow(I);
hold on
for i = 1:size(BB,1)
rectangle('Position',BB(i,:),'LineWidth',2,'LineStyle','-','EdgeColor','r');
end
title('Nose Detection');
hold off;
```

## Output:

## Program to Detect Mouth-

```
MDetect = vision.CascadeObjectDetector('Mouth');
I = imread('HarryPotter1.jfif');
BB = step(MDetect,I);
imshow(I);
hold on
for i = 1:size(BB,1)
rectangle('Position',BB(i,:),'LineWidth',2,'LineStyle','-','EdgeColor','r');
end
title('Mouth Detection');
hold off;
```

## Output: