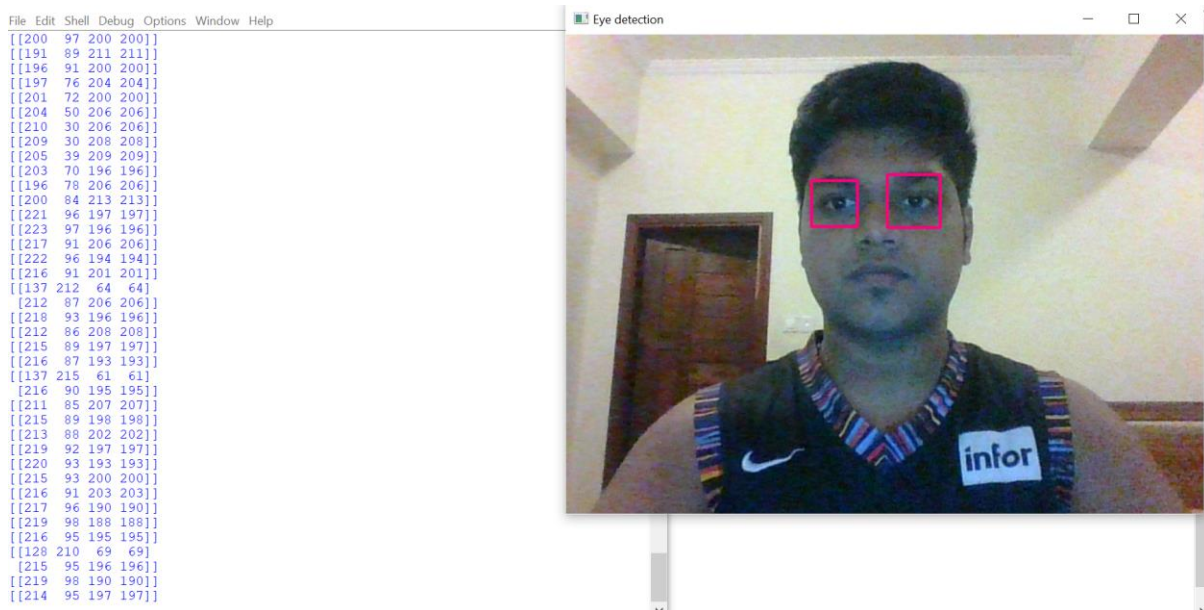
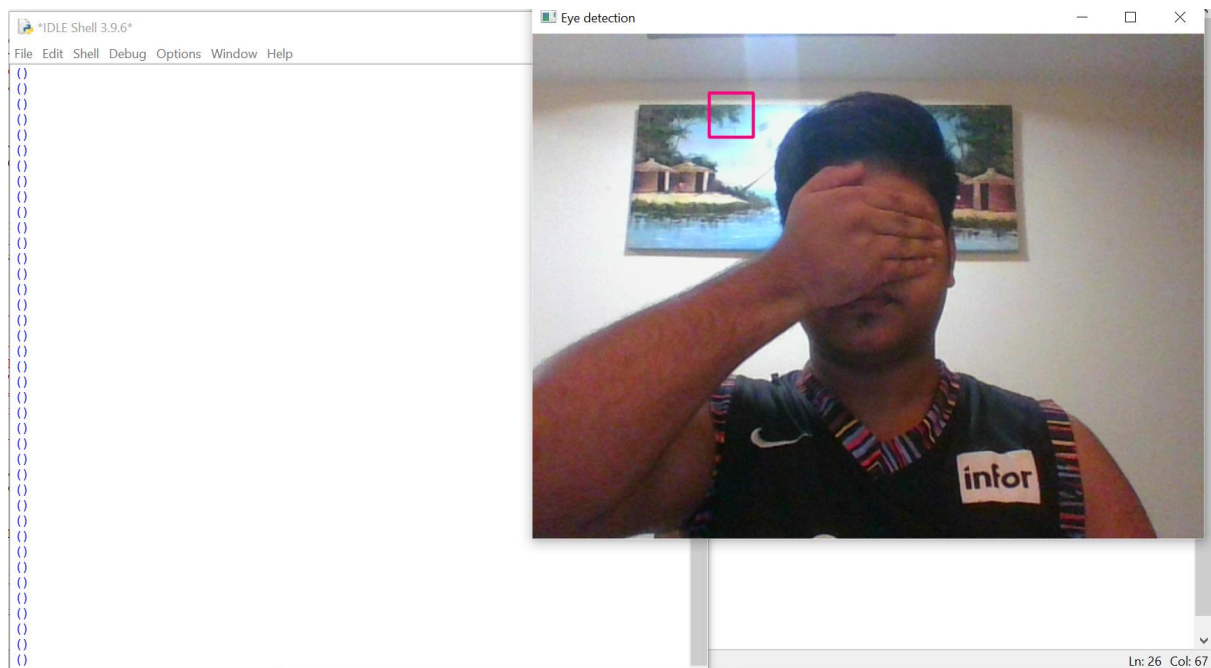


# ASSIGNMENT-6

Develop a python code to detect any object using Haar cascade classifier.



When the eyes are visible the camera detects its presence and hence produce the image data in the Python shell.



Here in this case the when the eyes are covered the camera cannot detect the eyes and hence the image data is produced.

### ***Python Codes:***

```
import cv2

face_classifier=cv2.CascadeClassifier("haarcascade_frontalface_default.xml")
eye_classifier=cv2.CascadeClassifier("haarcascade_eye.xml")
#It will read the first frame/image of the video
video=cv2.VideoCapture(0)

while True:

    #capture the first frame
    check,frame=video.read()
    gray=cv2.cvtColor(frame, cv2.COLOR_BGR2GRAY)
    #cv2.imshow('Video',gray)

    #detect the faces from the video using detectMultiScale function
    faces=face_classifier.detectMultiScale(gray,1.3,5)
    eyes=eye_classifier.detectMultiScale(gray,1.3,5)

    print(faces)
#drawing rectangle boundries for the detected eyes
for(ex,ey,ew,eh) in eyes:
    cv2.rectangle(frame, (ex,ey), (ex+ew,ey+eh), (127,0,255), 2)
    cv2.imshow('Eye detection', frame)

#waitKey(1)- for every 1 millisecond new frame will be captured
Key=cv2.waitKey(1)
if Key==ord('q'):
    #release the camera
```

```
video.release()
```

```
#destroy all windows
```

```
cv2.destroyAllWindows()
```

```
break
```