## **ASSIGNMENT-6**

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

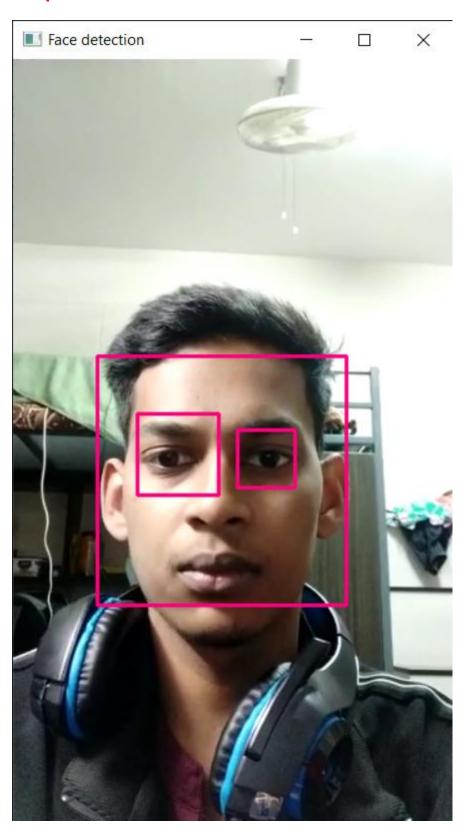
## Code: import cv2 face\_classifier=cv2.CascadeClassifier("haarcascade\_frontalface\_default.xml") eye classifier=cv2.CascadeClassifier("haarcascade eye.xml") video=cv2.VideoCapture('video1.mp4') while True: check,frame=video.read() gray=cv2.cvtColor(frame, cv2.COLOR BGR2GRAY)

faces=face\_classifier.detectMultiScale(gray,1.3,5)
eyes=eye\_classifier.detectMultiScale(gray,1.3,5)

print(faces)

```
for(x,y,w,h) in faces:
  cv2.rectangle(frame, (x,y), (x+w,y+h), (127,0,255), 2)
  cv2.imshow('Face detection', frame)
for(ex,ey,ew,eh) in eyes:
  cv2.rectangle(frame, (ex,ey), (ex+ew,ey+eh), (127,0,255), 2)
  cv2.imshow('Face detection', frame)
Key=cv2.waitKey(1)
if Key==ord('q'):
  #release the camera
  video.release()
  #destroy all windows
  cv2.destroyAllWindows()
  break
```

## **Output:**



## **# I attached XML files for this file in Git repo named as :**

- haarcascade\_eye
- haarcascade\_frontalface\_default