

## CODE FOR FACE DETECTION

```
import cv2

face_cascade = cv2.CascadeClassifier(r'C:\Users\Dell\AppData\Local\Programs\Python\Python38\Lib\site-packages\cv2\data\haarcascade_frontalface_default.xml')

eye_cascade = cv2.CascadeClassifier(r'C:\Users\Dell\AppData\Local\Programs\Python\Python38\Lib\site-packages\cv2\data\haarcascade_eye.xml')

cap = cv2.VideoCapture('videoplayback (2).mp4')

while 1:

    ret, img = cap.read()

    print(img)

    gray = cv2.cvtColor(img, cv2.COLOR_BGR2GRAY)

    faces = face_cascade.detectMultiScale(gray, 1.3, 5)

    for (x,y,w,h) in faces:

        cv2.rectangle(img,(x,y),(x+w,y+h),(255,255,0),2)

        roi_gray = gray[y:y+h, x:x+w]

        roi_color = img[y:y+h, x:x+w]

    cv2.imshow('img',img)

    k = cv2.waitKey(30) & 0xff

    if k == 27:

        break

cap.release()

cv2.destroyAllWindows()
```



