TASK: FACE DETECTION USING LIVE STREAM IN OPENCV PYTHON

PROGRAM

```
import cv2
#below XML classifiers describes some features of face object
face_cascade =
cv2.CascadeClassifier('haarcascade_frontalface_default.xml')
cap = cv2.VideoCapture(0)
 while 1:

   ret, img = cap.read()
   gray = cv2.cvtColor(img, cv2.COLOR_BGR2GRAY)

   face = face_cascade.detectMultiScale(gray, 1.3, 5)
  for (x,y,w,h) in face:
      # To draw a rectangle in a face
      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()
```

OUTPUT: