```
MAJOR PROJECT 2:
#Face with eye ditection with Live stream
import cv2
faceCascade = cv2.CascadeClassifier('haarcascade_frontalface_default.xml')
eyeCascade = cv2.CascadeClassifier('haarcascade_eye.xml')
video_capture = cv2.VideoCapture(0)
while True:
  # Capture frame-by-frame
  ret, frame = video_capture.read()
  gray = cv2.cvtColor(frame, cv2.COLOR_BGR2GRAY)
  faces = faceCascade.detectMultiScale( gray, 1.1, 5)
  # Draw a rectangle around the faces
  for (x, y, w, h) in faces:
    cv2.rectangle(frame, (x, y), (x+w, y+h), (0, 255, 0), 2)
  #EYE CLASSIFIER
    roi_gray = gray[y:y+w, x:x+w]
    roi_color = frame[y:y+w, x:x+w]
     eyes = eyeCascade.detectMultiScale(roi_gray, 1.3, 5)
    for (ex, ey, ew, eh) in eyes:
       cv2.rectangle(roi_color, (ex, ey), (ex + ew, ey + eh), (255, 0, 0), 2)
  # Display the resulting frame
  cv2.imshow('Face ditection with Live stream', frame)
```

if cv2.waitKey(1) == ord('q'):

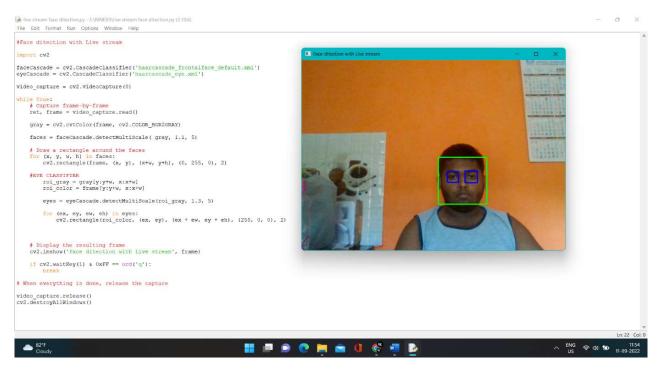
When everything is done, release the capture

video_capture.release()

cv2.destroyAllWindows()

OUTPUT of the above code:

Close-up view from the web cam:



Distant view from the web cam:

