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ASSIGNMENT 6

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tsrt.py - C:/Users/shiv taneja/Desktop/nazim/tsrt.py (3.7.4)
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import cv2

# Load the cascade
face_cascade = cv2.CascadeClassifier('haarcascade_frontalface_default.xml')

# To capture video from webcam.
cap = cv2.VideoCapture(0)
# To use a video file as input
# cap = cv2.VideoCapture('filename.mp4')

while True:
    # Read the frame
    _, img = cap.read()

    # Convert to grayscale
    gray = cv2.cvtColor(img, cv2.COLOR_BGR2GRAY)

    # Detect the faces
    faces = face_cascade.detectMultiScale(gray, 1.1, 4)

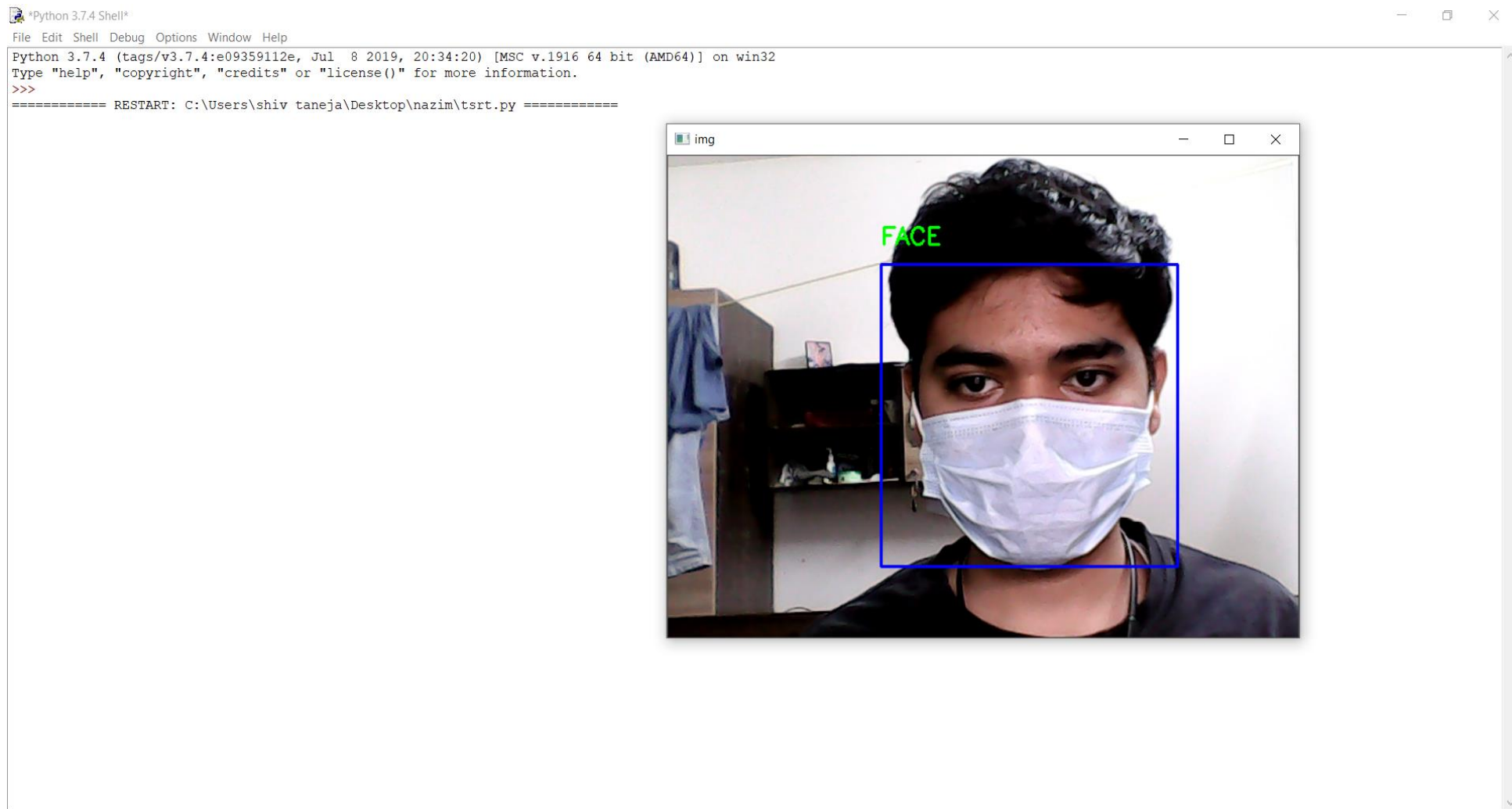
    # Draw the rectangle around each face
    for (x, y, w, h) in faces:
        cv2.rectangle(img, (x, y), (x+w, y+h), (255, 0, 0), 2)
        cv2.putText(img, 'FACE', (x, y-20), cv2.FONT_HERSHEY_SIMPLEX, 0.8, (0, 255, 0), 2)

    # Display
    cv2.imshow('img', img)

    # Stop if escape key is pressed
    k = cv2.waitKey(30) & 0xff
    if k==27:
        break

# Release the VideoCapture object
cap.release()
```

Ln: 34 Col: 20



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face_cascade = cv2.CascadeClassifier('haarcascade_frontalface_default.xml')

# To capture video from webcam.
cap = cv2.VideoCapture(0)
# To use a video file as
# cap = cv2.VideoCapture('')
```

```
while True:
    # Read the frame
    _, img = cap.read()
```

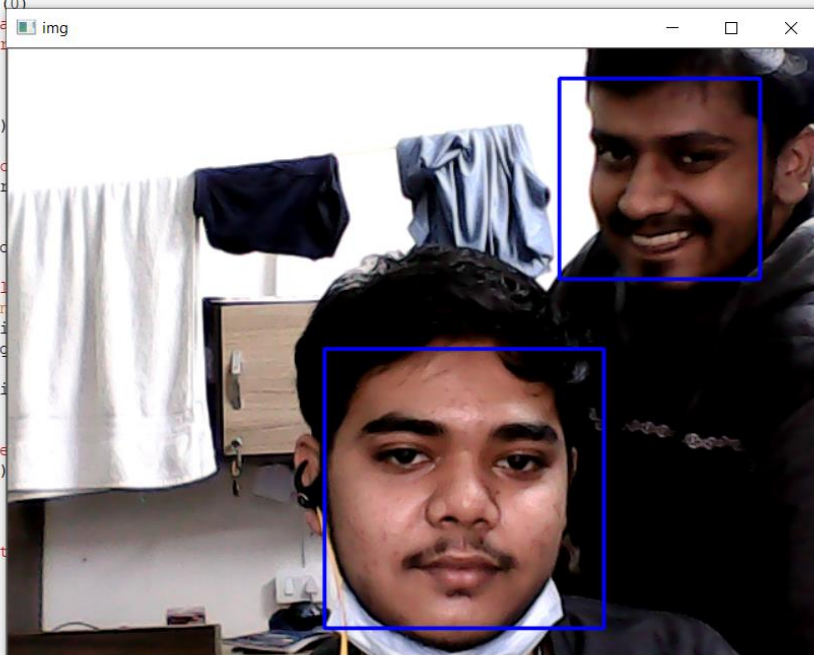
```
    # Convert to grayscale
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    # Detect the faces
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    # Draw the rectangles around the faces
    for (x, y, w, h) in faces:
        cv2.rectangle(img, (x, y), (x+w, y+h), (255, 0, 0), 2)
        cv2.putText(img, 'face', (x+w, y+h), cv2.FONT_HERSHEY_SIMPLEX, 0.8, (255, 0, 0))
    # Display the image
    cv2.imshow('img', img)
```

```
    # Stop if escape key is pressed
    k = cv2.waitKey(30) & 0xFF
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        break
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while True:
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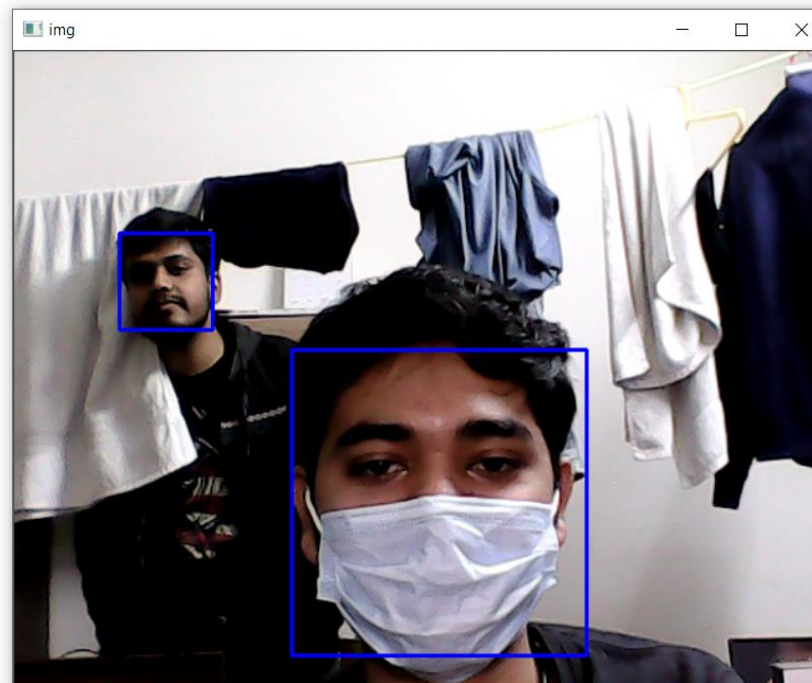
    # Convert to grayscale
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    # Draw the rectangle around each face
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        cv2.rectangle(img, (x, y), (x+w, y+h), (255, 0, 0), 2)
        cv2.putText(img, 'FACE', (x, y-20), cv2.FONT_HERSHEY_SIMPLEX, 0.8, (0, 255, 0), 2)
    # Display
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