In [1]:

```
import cv2
```

In [2]:

```
smile_cascade = cv2.CascadeClassifier('haarcascade_smile.xml')
```

In [3]:

```
img1 = cv2.imread('OIP.jpg')
img1_copy = img1.copy()
smile_rects = smile_cascade.detectMultiScale(img1_copy, scaleFactor=1.8,minNeighbors=15)
print(smile_rects)

for (x,y,w,h) in smile_rects:
    cv2.rectangle(img1_copy, (x,y), (x+w,y+h), (0,255,0),2)
    cv2.putText(img1_copy,"Detected",(x,y-10),cv2.FONT_HERSHEY_SIMPLEX,0.5,(0,0,0),1)

cv2.imshow("smile detection",img1_copy)
cv2.waitKey(0)
cv2.destroyAllWindows()
```

```
[[98 82 36 18]]
```

In [15]:

```
cap = cv2.VideoCapture(0)

while True:
    flag, frame = cap.read()
    smile_rects = smile_cascade.detectMultiScale(frame, scaleFactor=1.8,minNeighbors=25, mi
#     eye_rects = eye_cascade.detectMultiScale(frame)
    for (x,y,w,h) in smile_rects:
        cv2.rectangle(frame, (x,y), (x+w,y+w), (0,255,0),3)
        cv2.putText(frame,"Detected",(x,y-10),cv2.FONT_HERSHEY_SIMPLEX,0.5,(0,0,0),1)
#     for (x,y,w,h) in eye_rects:
#         cv2.rectangle(frame, (x,y), (x+w,y+w), (0,255,0),3)

    cv2.imshow("smile",frame)


    if cv2.waitKey(1) & 0xFF == ord('q'):
        break
cap.release()
cv2.destroyAllWindows()
```

In [ ]:

```

```