

ASSIGNMENT 6

- Develop a python code to detect any object using Haar cascade classifier.

Python Code

```
import cv2

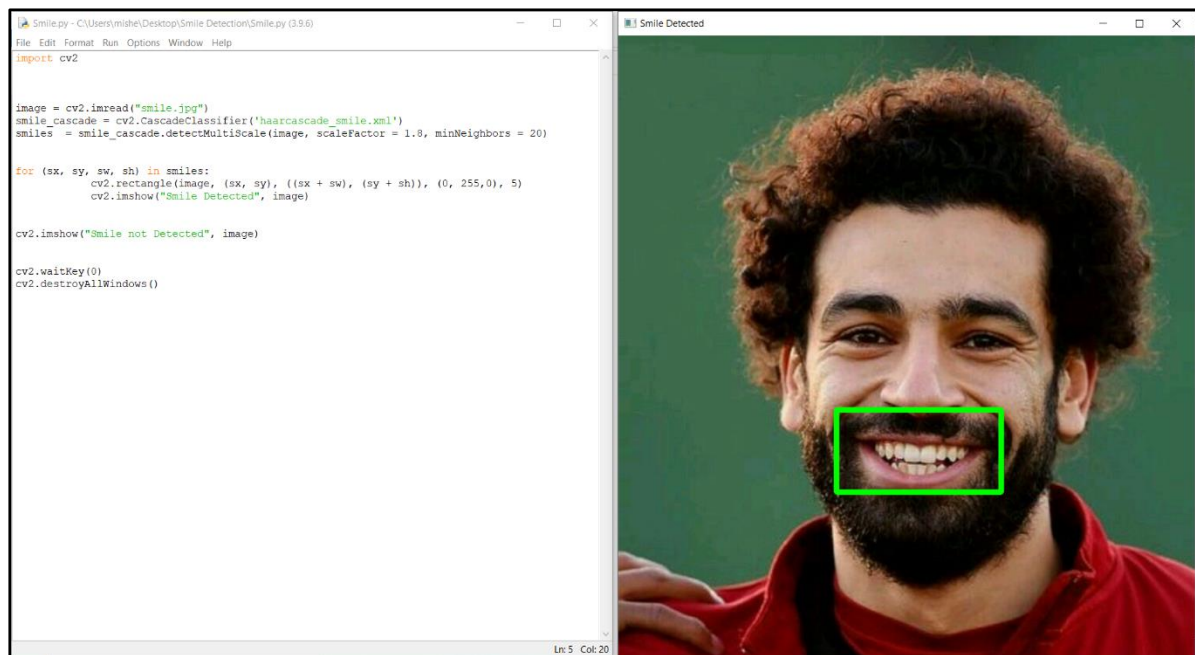
image = cv2.imread("not_smile.jpg")
smile_cascade = cv2.CascadeClassifier('haarcascade_smile.xml')
smiles = smile_cascade.detectMultiScale(image, scaleFactor = 1.8,
minNeighbors = 20)

for (sx, sy, sw, sh) in smiles:
    cv2.rectangle(image, (sx, sy), ((sx + sw), (sy + sh)),
(0, 255,0), 5)
    cv2.imshow("Smile Detected", image)

cv2.imshow("Smile not Detected", image)

cv2.waitKey(0)
cv2.destroyAllWindows()
```

When smile is detected



When smile is not detected

