

## ASSIGNMENT 6 (Detect Smile on face)

- **Python Code:**

```
import cv2
```

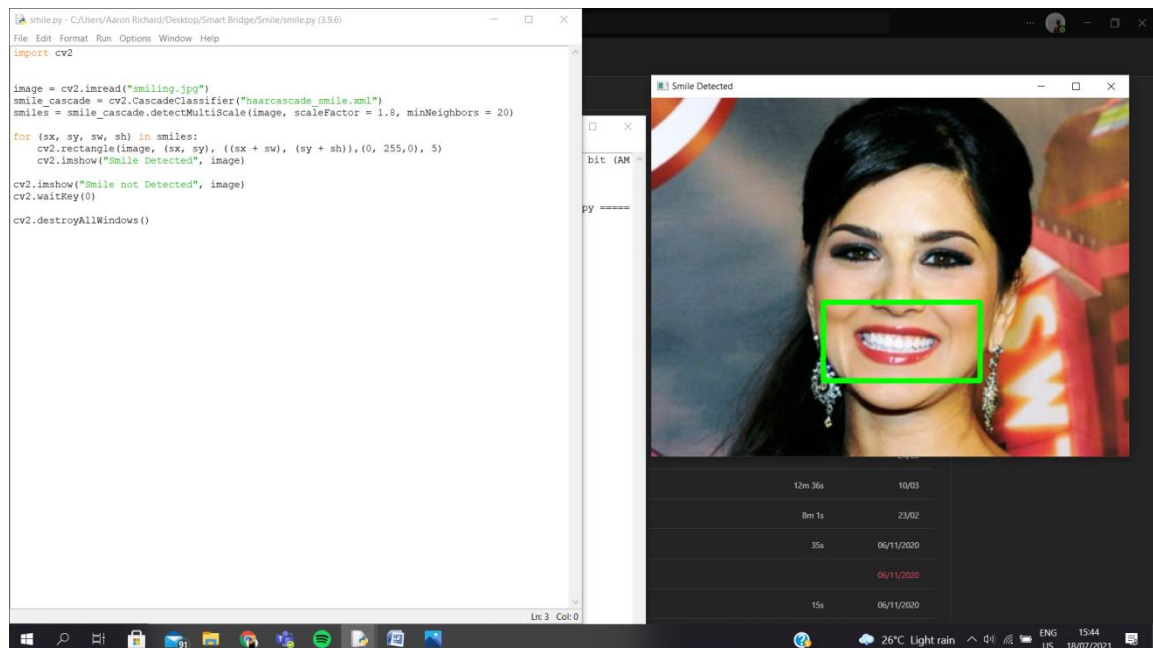
```
image = cv2.imread("angry.jpg")
smile_cascade = cv2.CascadeClassifier("haarcascade_smile.xml")
smiles = smile_cascade.detectMultiScale(image, scaleFactor = 1.8, minNeighbors = 20)
```

```
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()
```

- **Output (Smiling):**



- **Output(Not Smiling):**

