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Major Project 2

```
face cascade = cv2.CascadeClassifier('haarcascade frontalface default.xml')
img = cv2.imread('Faces3.jpg') #Reading the image
gray = cv2.cvtColor(img,cv2.COLOR BGR2GRAY) #Converting the image into grayscale
faces = face cascade.detectMultiScale(gray,scaleFactor = 1.2,minNeighbors = 9)
face count =0
for x, y, w, h in faces :
    face count+=1
    d = f'{face count}'
    img = cv2.rectangle(img, (x,y), (x+w,y+h), (0,255,0),5) #For making a rectangle aroun
    cv2.putText(img,d,(int(x+w/3),int(y+h)),cv2.FONT HERSHEY DUPLEX,2,(255,0,0),5) # T
##
print(f'Number of faces detected in the photo are : {face count}')
cv2.imshow('Face Detection', img) #To display the final image
cv2.waitKey(0)
cv2.destroyAllWindows()
```

OUTPUT:

```
**IDLE Shell 3.10.7*
File Edit Shell Debug Options Window Help

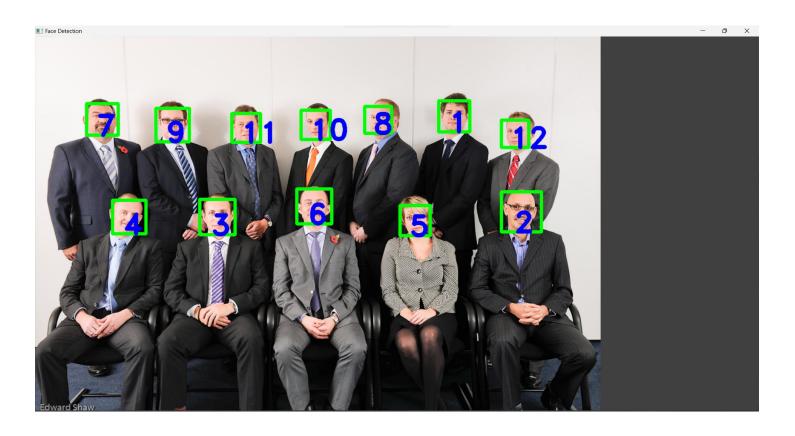
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep 5 2022, 14:08:36) [MSC v.1933 64 bit (AMD64)] on win32

Type "help", "copyright", "credits" or "license()" for more information.

>>>

======== RESTART: C:\Users\Arin Dev\Desktop\Rinex6\Counting_faces.py ======

Number of faces detected in the photo are : 12
```



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Link to this Notebook :

https://colab.research.google.com/drive/10rdU6e-4QiiM7T_XJ_nqW2UUK5QL3-nw?usp=sharing

Link to my Colab Notebooks :

https://drive.google.com/drive/folders/1WyxyVfRdAYuGWbqHI9O3rFCyMNORSo1t?usp=sharing

Link to my GitHub : https://github.com/arin-dev/Rinex