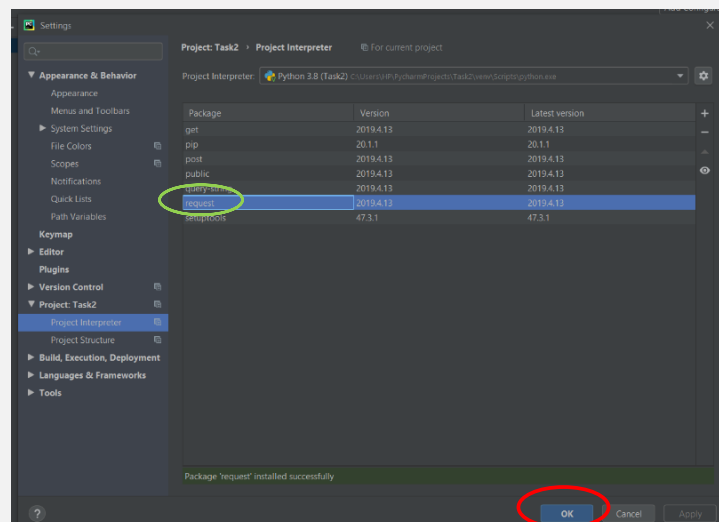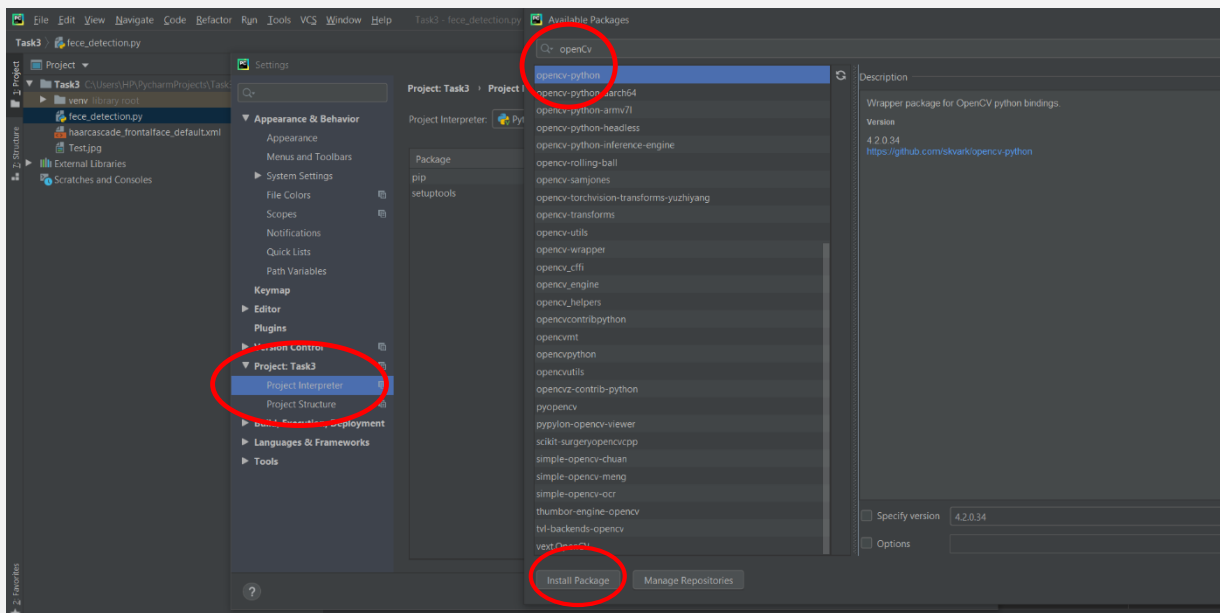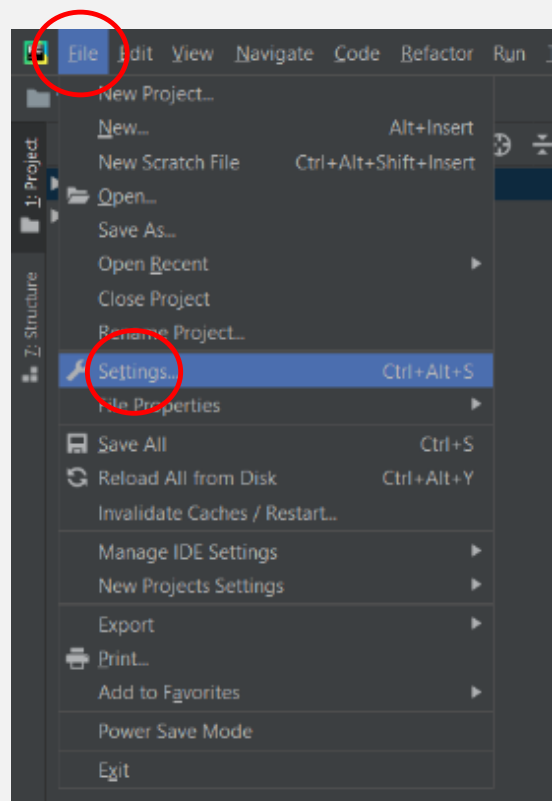TASK3

# PYTHON CODE FOR FACE DETECTION

SAMIRAH ABED

# Download the library-openCV
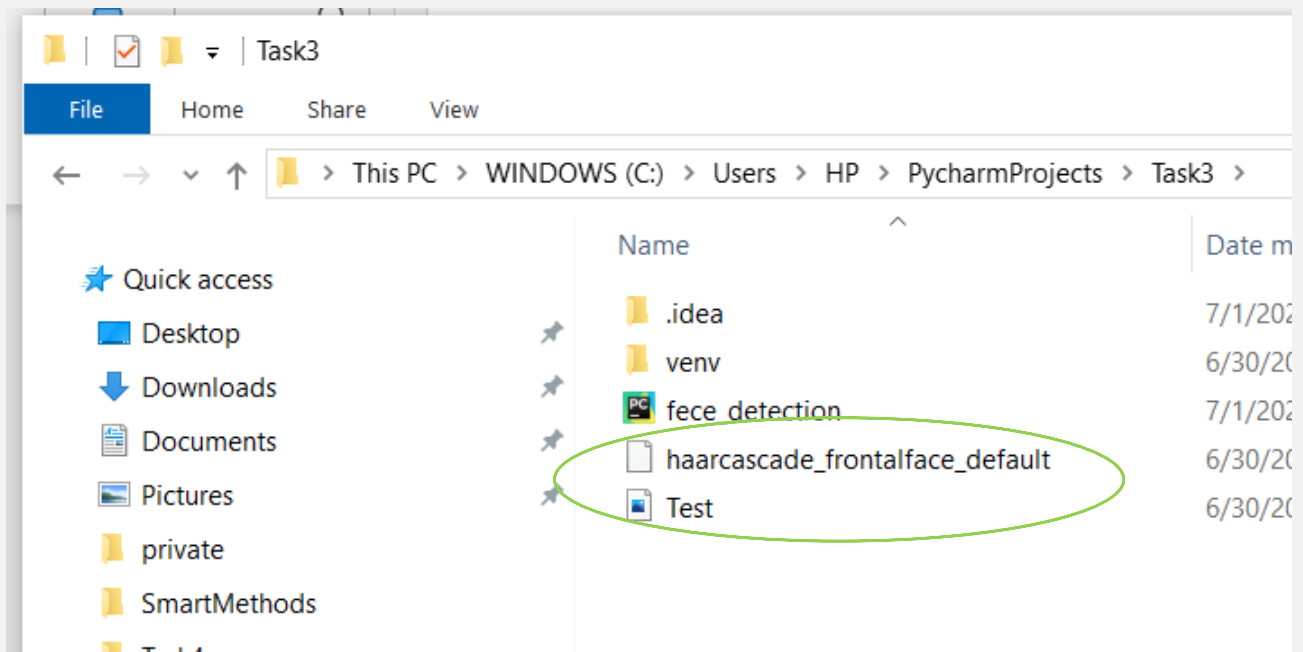
File>>Settings>>Your Project>>Project Interpreter>> + >> openCV >>Install Package

# Note
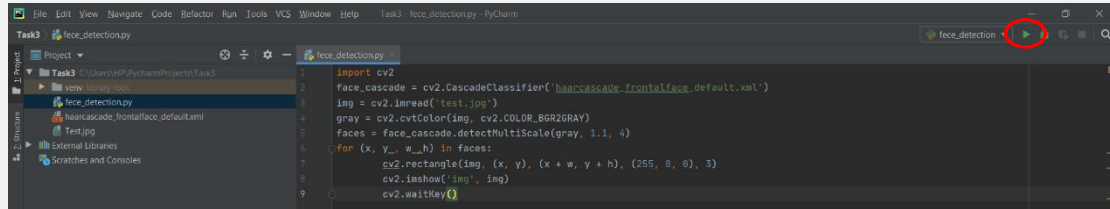
1- Download this file
[haarcascade_frontalface_default](haarcascade_frontalface_default) and save
it in the same folder of your project.
2- Download test image and save it in the
same folder.

# Write the Code

Your Project>>New>>Python File>>Write the Code>>Run



```python
import cv2
face_cascade =
cv2.CascadeClassifier('haarcascade_frontalface_default.
xml')
img = cv2.imread('test.jpg')
gray = cv2.cvtColor(img, cv2.COLOR_BGR2GRAY)
faces = face_cascade.detectMultiScale(gray, 1.1, 4)
for (x, y , w ,h) in faces:
        cv2.rectangle(img, (x, y), (x + w, y + h),
(255, 0, 0), 3)
        cv2.imshow('img', img)
        cv2.waitKey()
```

# The Output