



Task 3

Run the face recognition or detection
example

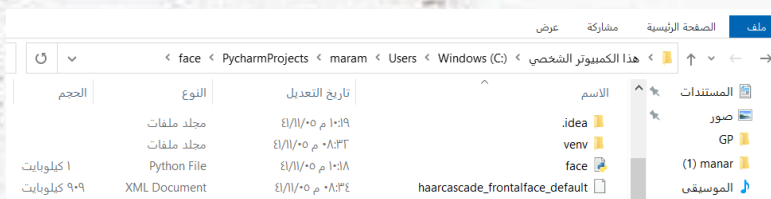
Manar AL Zahrani

Run the face recognition or detection example

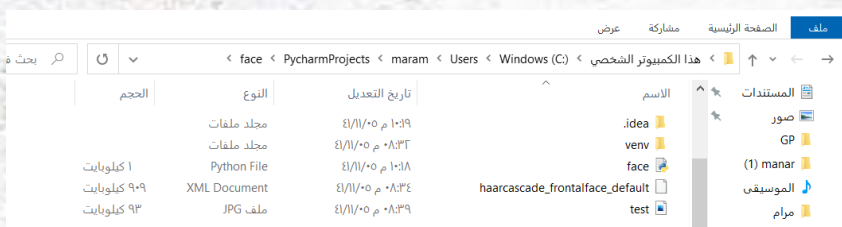
1-Download the library OpenCV python

2-Go to <https://github.com/opencv/opencv/tree/master/data/haarcascades>

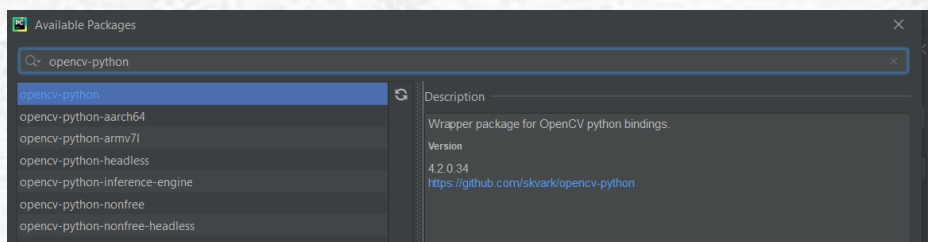
3-Save the file in the folder my project [haarcascade_frontalface_default.xml](#)



3-Save image in the same folder



4-Go to PyCharm >file>setting>Project>Project Interpreter>chose OpenCV-python >Install Packages



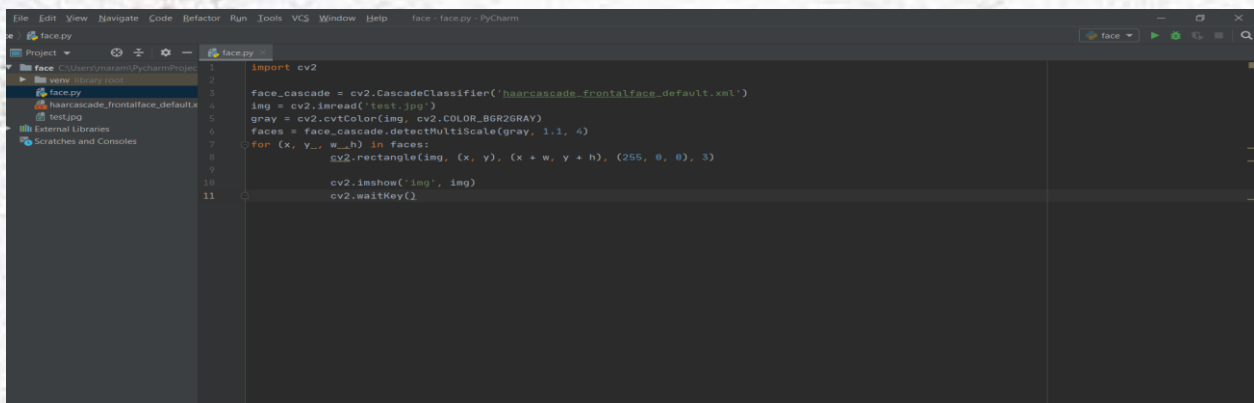
Write the code

```
import cv2

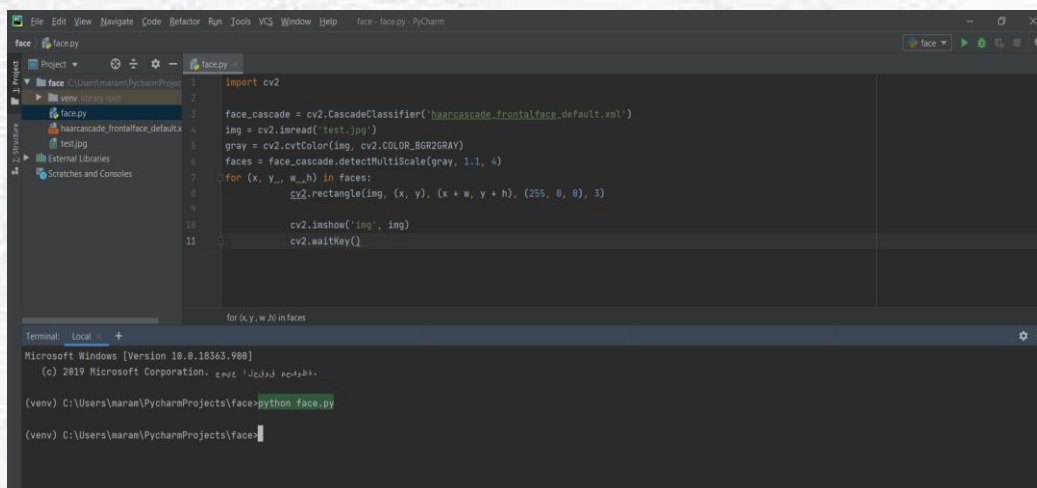
face_cascade = cv2.CascadeClassifier('haarcascade_frontalface_default.xml')
img = cv2.imread('test.jpg')
gray = cv2.cvtColor(img, cv2.COLOR_BGR2GRAY)
faces = face_cascade.detectMultiScale(gray, 1.1, 4)
for (x, y, w, h) in faces:
    cv2.rectangle(img, (x, y), (x + w, y + h), (255, 0, 0), 3)

    cv2.imshow('img', img)
cv2.waitKey()
```

Output



Write in Terminal name of project.py



The screenshot shows the PyCharm IDE with a project named 'face'. The file 'face.py' is open, containing the following code:

```
1 import cv2
2
3 face_cascade = cv2.CascadeClassifier('haarcascade_frontalface_default.xml')
4 img = cv2.imread('test.jpg')
5 gray = cv2.cvtColor(img, cv2.COLOR_BGR2GRAY)
6 faces = face_cascade.detectMultiScale(gray, 1.1, 4)
7 for (x, y, w, h) in faces:
8     cv2.rectangle(img, (x, y), (x + w, y + h), (255, 0, 0), 3)
9
10 cv2.imshow('img', img)
11 cv2.waitKey()
```

The terminal at the bottom shows the command to run the script:

```
(venv) C:\Users\maran\PycharmProjects\face>python face.py
```

The Result

