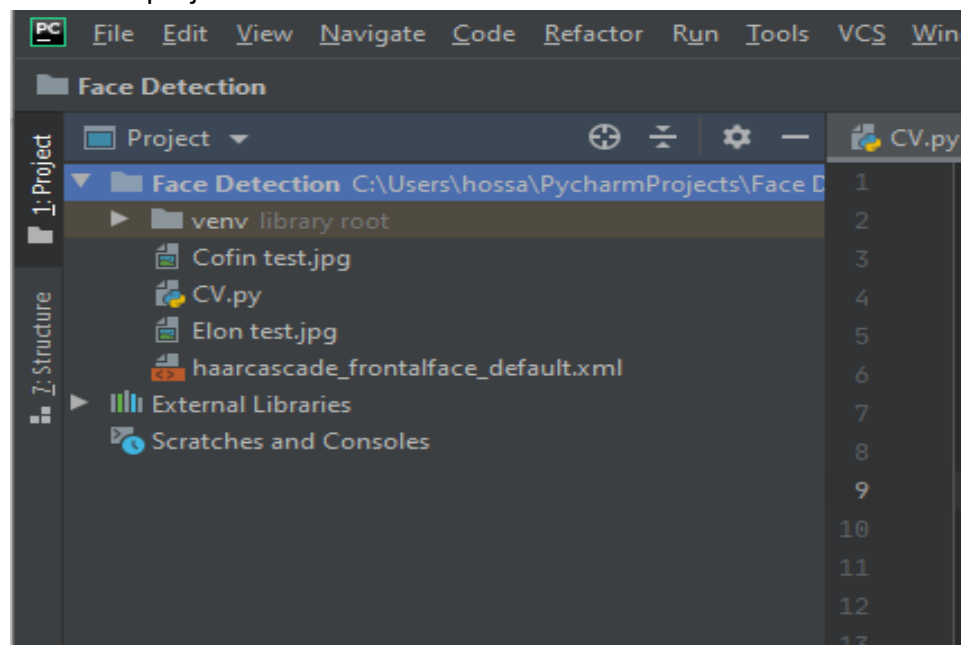


1. First you want to install 'opencv' on your Python by entering the following code in the terminal:

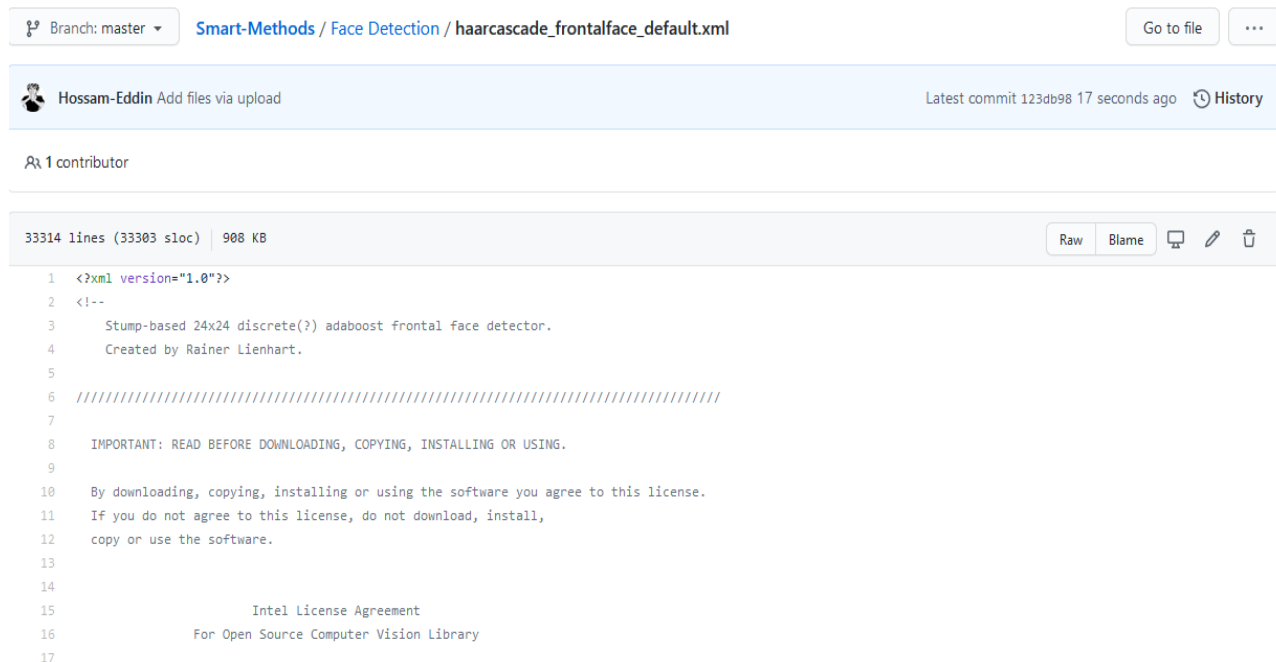
```
(venv) C:\Users\hossa\PycharmProjects\Face Detection>pip install opencv-python
Collecting opencv-python
  Downloading opencv_python-4.2.0.34-cp38-cp38-win_amd64.whl (33.1 MB)
    |████████████████████████████████████████| 33.1 MB 373 kB/s
Collecting numpy>=1.17.3
  Downloading numpy-1.19.0-cp38-cp38-win_amd64.whl (13.0 MB)
    |████████████████████████████████████████| 13.0 MB 6.4 MB/s
Installing collected packages: numpy, opencv-python
Successfully installed numpy-1.19.0 opencv-python-4.2.0.34
```

2. You want to put the 'haarcascade_frontalface_default.xml' and the image you want to use in the python project directory that you are working on by simply dragging them into the project's folder:



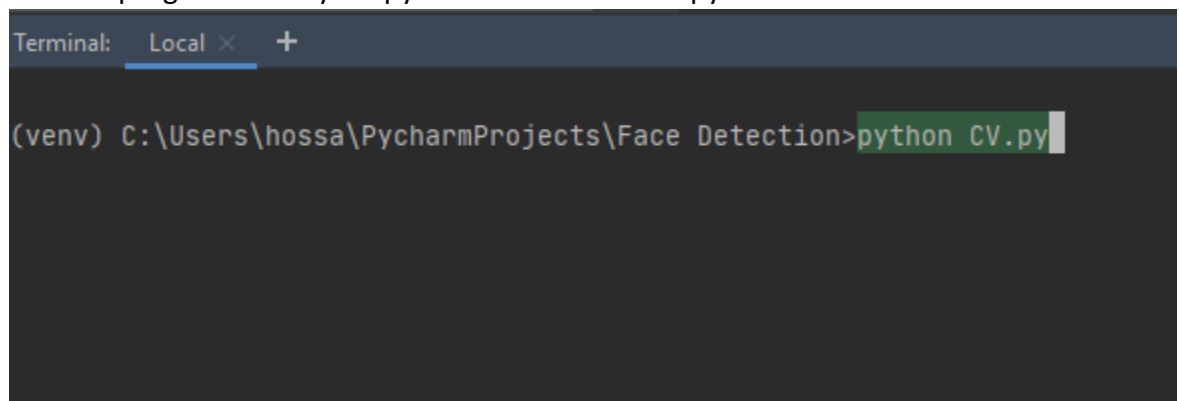
p.s: Those files are the files that I used in my project, and can be found in:
<https://github.com/Hossam-Eddin/Smart-Methods/tree/master/Face%20Detection>

To get the 'haarcascade_frontalface_default.xml' from the link, simply click on it then click on raw and then you can Ctrl+S to save it on your computer:



The screenshot shows a GitHub repository page for the file 'haarcascade_frontalface_default.xml'. The repository is named 'Smart-Methods / Face Detection' and is on the 'master' branch. The file is 908 KB and has 33314 lines (33303 sloc). The file content is displayed in a code editor with line numbers 1 through 17. The content is an XML file with a version of 1.0. It includes a comment about the detector being stump-based and created by Rainer Lienhart. It also contains a license agreement section that reads: 'IMPORTANT: READ BEFORE DOWNLOADING, COPYING, INSTALLING OR USING. By downloading, copying, installing or using the software you agree to this license. If you do not agree to this license, do not download, install, copy or use the software. Intel License Agreement For Open Source Computer Vision Library'.

3. Follow the [Code, Explanation & Sources](#) in the link, to understand and write down the code.
4. Run the program >>> If your python file name is 'CV.py':



The screenshot shows a terminal window with the title 'Terminal: Local x +'. The command prompt is '(venv) C:\Users\hossa\PycharmProjects\Face Detection>'. The command 'python CV.py' has been entered and is highlighted in green.

And press ENTER

p.s: to create a python file to include your code in, rightclick on your project's folder >> New >> File >> name your file: 'name.py'