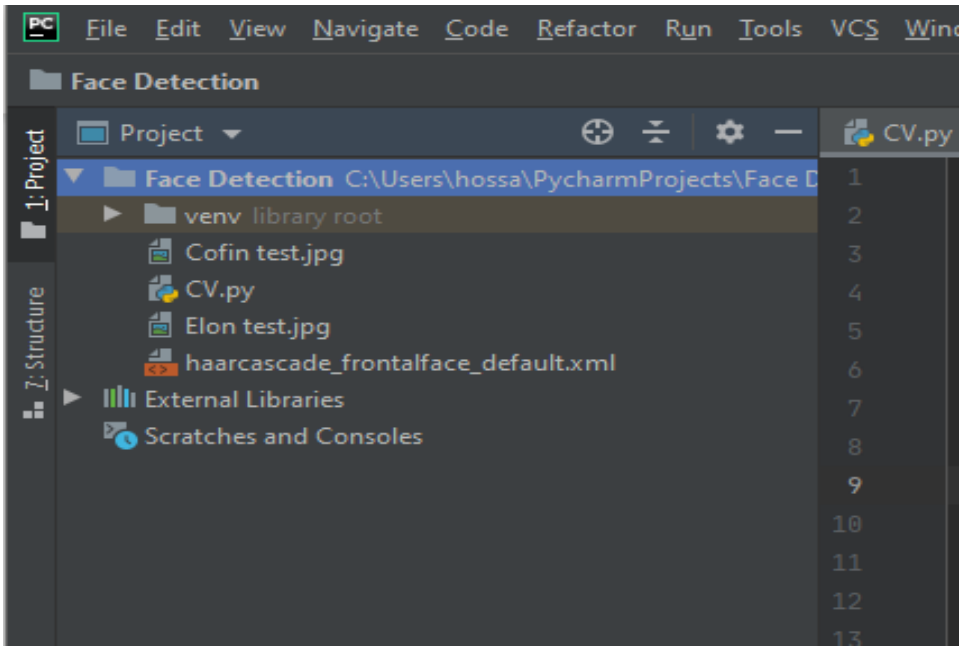
1. First you want to install ‘opencv’ on your Python by entering the following code in the terminal:

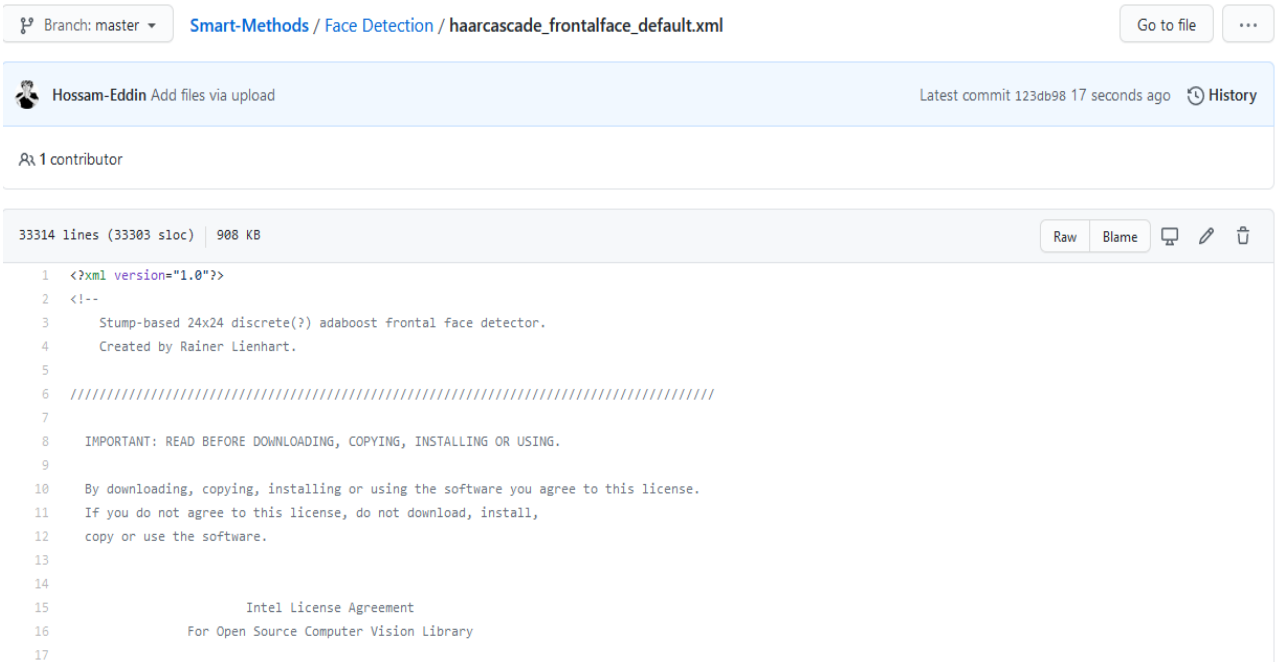
```
(venv) C:\Users\hossa\PycharmProjects\Face Detection>pip install opencv-python
Collecting opencv-python
  Downloading opencv_python-4.2.0.34-cp38-cp38-win_amd64.whl (33.1 MB)
     |████████████████████████████████| 33.1 MB 373 kB/s
Collecting numpy>=1.17.3
  Downloading numpy-1.19.0-cp38-cp38-win_amd64.whl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

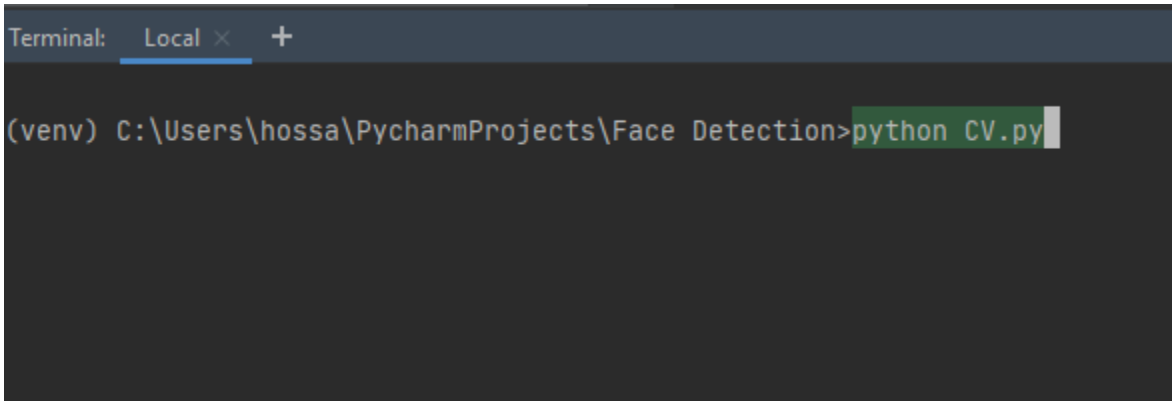


p.s: Those files are the files that I used in my project, and can be found in: https://github.com/Hossam-Eddin/Smart-Methods/tree/master/Face%20Detection

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:



3. Follow the [Code, Explaination & Sources] in the link, to understand and write down the code.
4. Run the program >>> If your python file name is ‘CV.py ’:



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’