

Step1: no errors

Step2:

8 change with:

```
sudo apt-get install libjpeg8-dev
sudo add-apt-repository "deb http://security.ubuntu.com/ubuntu xenial-security main"
sudo apt update
sudo apt install libjasper1 libjasper-dev
sudo apt-get install libpng-dev
```

If you are using ubuntu with version > 16.04 then do line 13 not 11.

17 change with:

```
sudo apt install -y libgstreamer1.0-dev libgstreamer-plugins-base1.0-dev
```

Also download optional libraries.

step3: don't do what the website says. Do this:

```
sudo apt-get install python3-dev python3-pip
sudo -H pip3 install -U pip numpy
(if there was a warning or error, just continue its ok)
```

```
sudo pip3 install virtualenv virtualenvwrapper
echo "# Virtual Environment Wrapper" >> ~/.bashrc
echo "export VIRTUALENVWRAPPER_PYTHON='/usr/bin/python3'" >> ~/.bashrc
echo "source /usr/local/bin/virtualenvwrapper.sh" >> ~/.bashrc
source ~/.bashrc
```

```
mkvirtualenv facecourse-py3 -p python3
workon facecourse-py3
pip install numpy scipy matplotlib scikit-image scikit-learn ipython
deactivate
```

Step 4 + 5 just follow the website and the pdf in moodle.

In perek 3 (page 12 - 16) before starting each part, check that you are here:

```
waseem@ubuntu:~$
```

And not in some other directory like:

```
waseem@ubuntu:~/opencv/build$
```

(that means use 'cd ..' to go back between directories)