Instructions for code execution

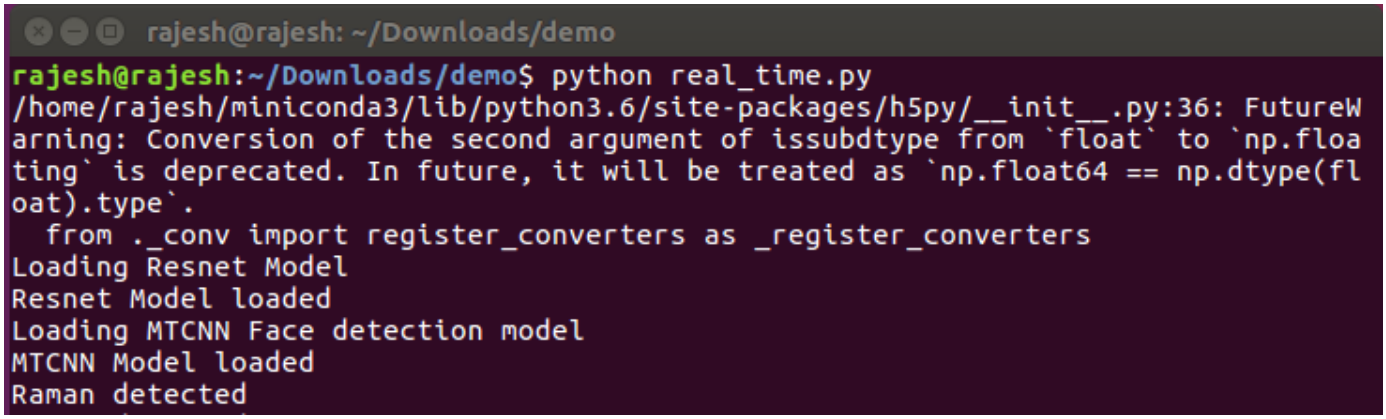
Running Face Recognition

1. Navigate to `/face` folder.
2. Right click and open terminal from that folder.

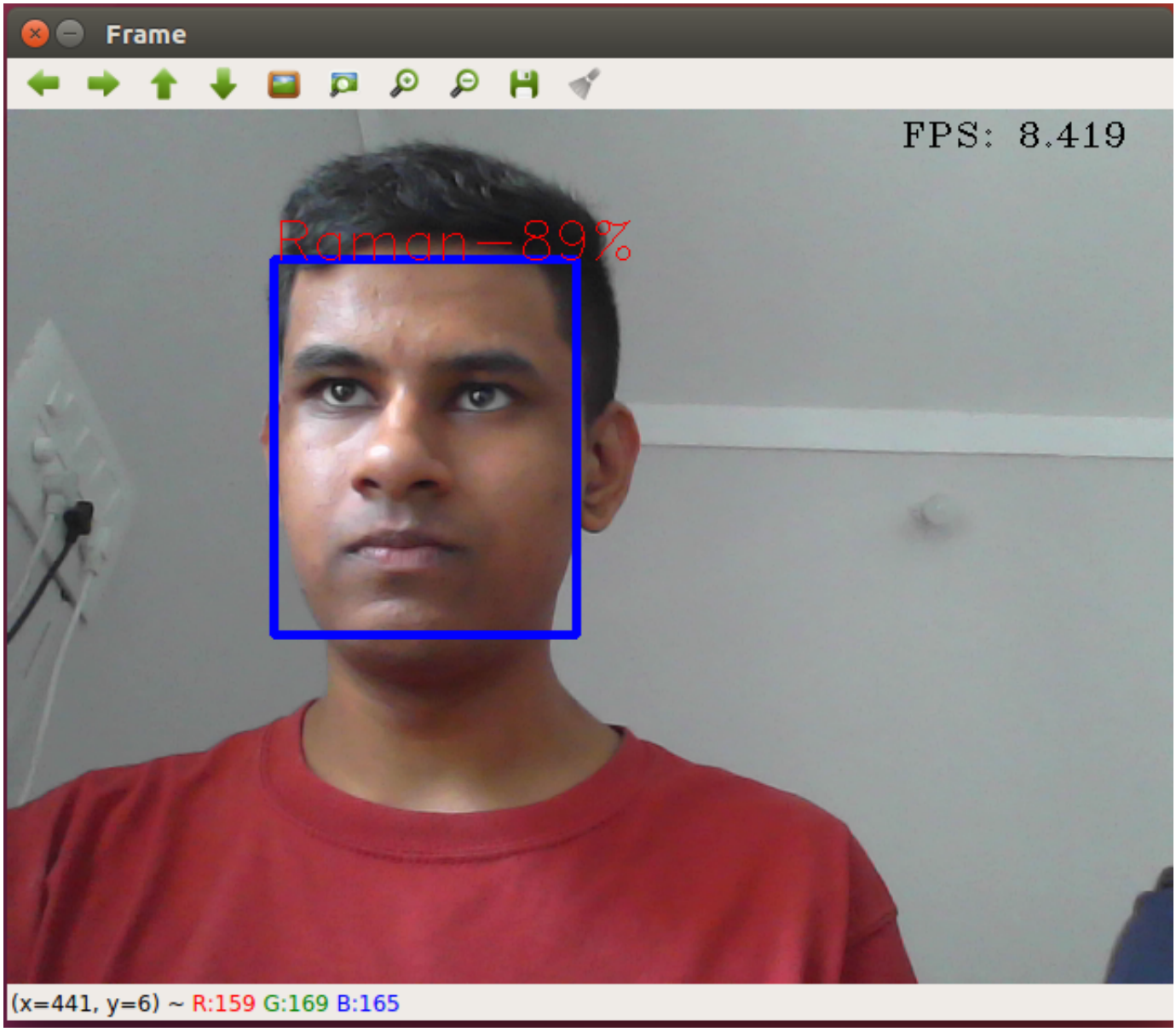
3. Type this (to start the program):

```
python real_time.py
```

You would get an interface like this:



and output window like this:



To stop the program just click on the output window and press Q.

For image testing:

```
python real_time.py --mode image
```

To train recognition to add people to the dataset

1) Make sure `/face` folder has the desired video of the person
2) In the face_recognition.py file, navigate to to add_faces() function.
3) In the cv2.VideoCapture() function, enter the name of the video file as the parameter.
4) Navigate to `/face` folder.
5) Right click and open terminal from there.
6) Start the training process by typing this on terminal:

```
python real_time.py --mode input
```

7) Enter the name of the person when asked.

The terminal output of this would be:

```
rajesh@rajesh:~/Downloads/demo$ python real_time.py --mode input
/home/rajesh/miniconda3/lib/python3.6/site-packages/h5py/__init__.py:36: FutureW
arning: Conversion of the second argument of issubdtype from `float` to `np.floa
ting` is deprecated. In future, it will be treated as `np.float64 == np.dtype(fl
oat).type`.
  from ._conv import register_converters as _register_converters
Loading Resnet Model
Resnet Model loaded
Loading MTCNN Face detection model
MTCNN Model loaded
Please input new user ID:
Pranav
Please start turning slowly. Press 'q' to save and add this new user to the data
set
```

And simultaneously training is visualised like this:

8) The training will automatically stop and the person will be added to the dataset