Assignment 4

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# Report

The assignment problems are solved using C++ and OpenGL library in Visual Studio 2015

**INPUT**: Live webcam stream.

**OUTPUT**: Detect and blur user’s face.

The application achieves the result as follows:

1. Preprocessing of images for training:The images of the user is captured and croppped and resized. The training image should have the user facing forward and the face features should be clearly visible.



1. The opencv Casscade Classifier is used for face detection and the LBPH FaceRecognizer is trained using the above training images.
2. If the prediction from the Classifier returned as the face of the user then the detected region is blurred using a GaussianBlur.

The output is shown below:

