**PART-1 Silence Detection**

Approaches during modification :

1 Histogram equalization will help in gaining contrast which provides help while detection on images which are too bright or dark(both foreground and background)

2 blur() is used with neighboring window of size (2,2). It helps in either highlighting or masking some elements of an image

3) Changing the minimum neighbors for mouth from 4 to 3 and updating the window size from (20, 20) to (35,32) will help in eliminating some false positives

4) While using cascade classifier to detect face in an image, changed the minimum number of neighbors for a face to 4 from 3 in detectMultiScale function.

5) Changing the width of lower rectangle part of face to width \* 7/8 to choose a small area of lower face will help in eliminating the false positive.