

Figure 6

The test image matches the image no. 29 in the database having different face expression as clear from the figure 7.

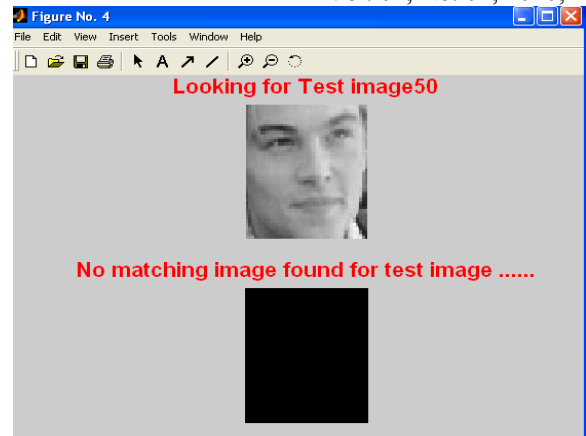


Figure 9

## V. CONCLUSION

From the observations, it is clear that only 15% of Eigenfaces with the largest eigen values are sufficient for the recognition of a person.

It is also clear that if the minimum Euclidian distance of the test image from other images is zero, then the test image completely matches the existing image in the database. If minimum Euclidian distance is non-zero but less than threshold value, then it is a known face but having different face expression else it is an unknown face.

## REFERENCES

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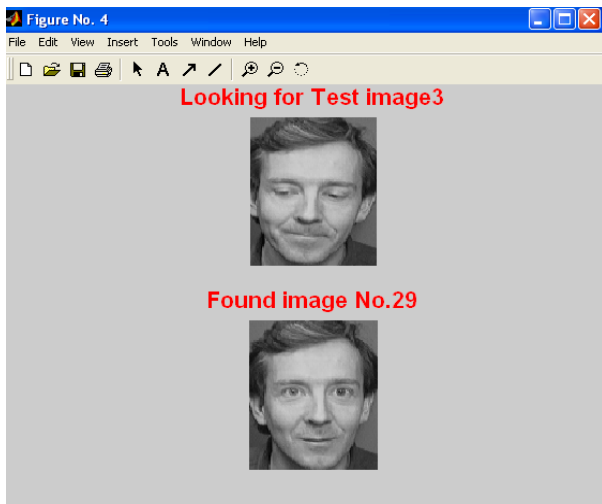


Figure 7

The minimum Euclidean distance of another test image was found as 4104.7 from the image no.4 in the database (Figure 8) but this value is greater than chosen threshold value. Hence it is an unknown face. (Figure 9)

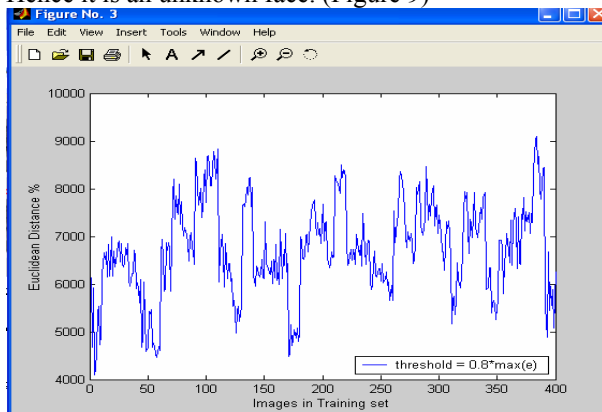


Figure8