Assignment 4

Q3) Idutification of faces not in the database

- We use thresholding to tackle this.

For a new image, we calculate the sum of squared differences of the eigen confficients and threshold it. with the nearest neighbour and threshold it. Anything that falls below this thrushold belongs to database (claim)

* For a new image of person that is not in the database and below thoushold, we have a falle position

* For a sinage of person in database and above thrushold, we have a false negative.

We have two parameters to ture: 'K' and thoushold

Optimal parameters and result:

K = 25 thoushold = (1965)² (for 55d) false-positive = 12 false-regative = 27