Programming Assignment 1
(Implementation of PCA)

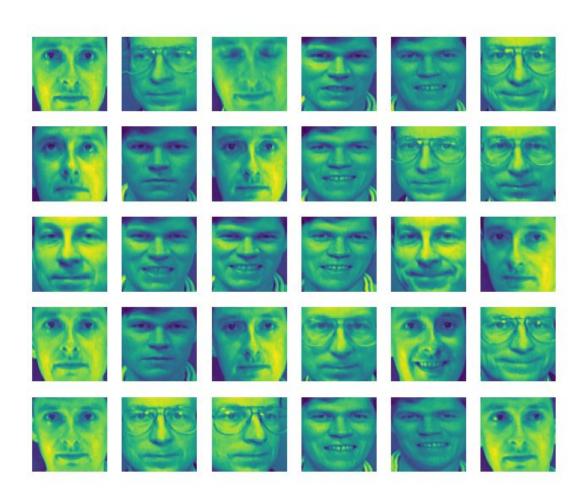## Group Members
Mandeep Bawa (170030038)
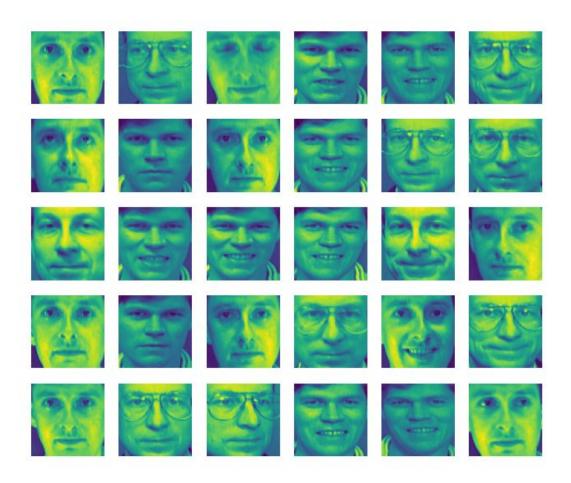Anubola Sai Abhinay(180010006)

Results from the Implementation
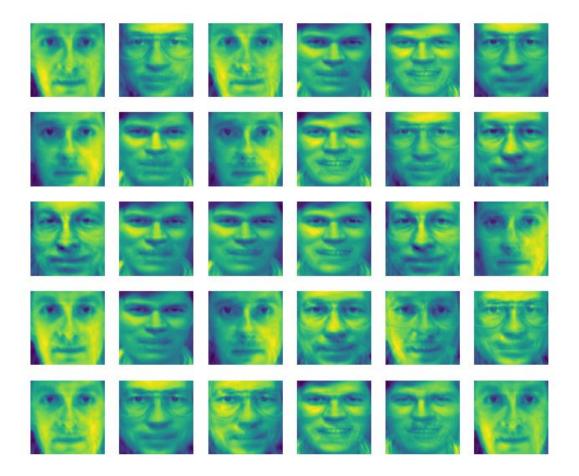
- Original Images provided

Original Images

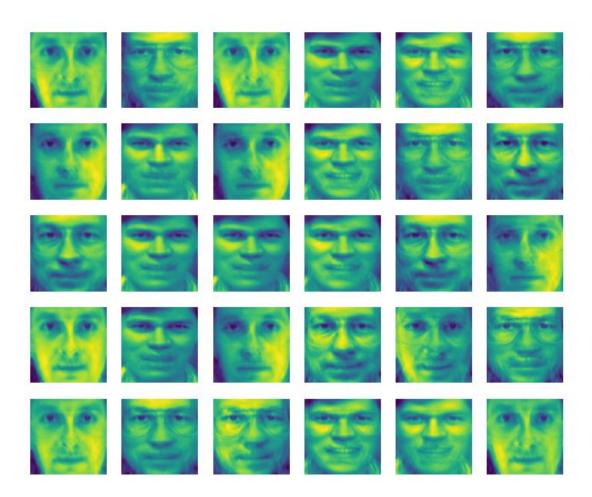● Image Constructed using 4096 components

Decompressed Images

- X (for which faces are discernible) = 5

Decompressed Images

- Images for value X = 4

Decompressed Images

Choosing Value X

- Comparison were made on basis of image (3rd row, 1st column)
- When X >= 5 this face looks aged
- On X < 5 face looks young

Another Observation

- Eyes in image (1st row, 3rd column) are open in the original image but closed in the decompressed images.
- On X > 20, eyes are closed in that image
- It does not affect value of X as faces are still discernible at X = 5

Link for Code

Github Link: https://github.com/Mandeep3838/Data-Science/tree/master/PA1