Coursework Four Results by lc3311

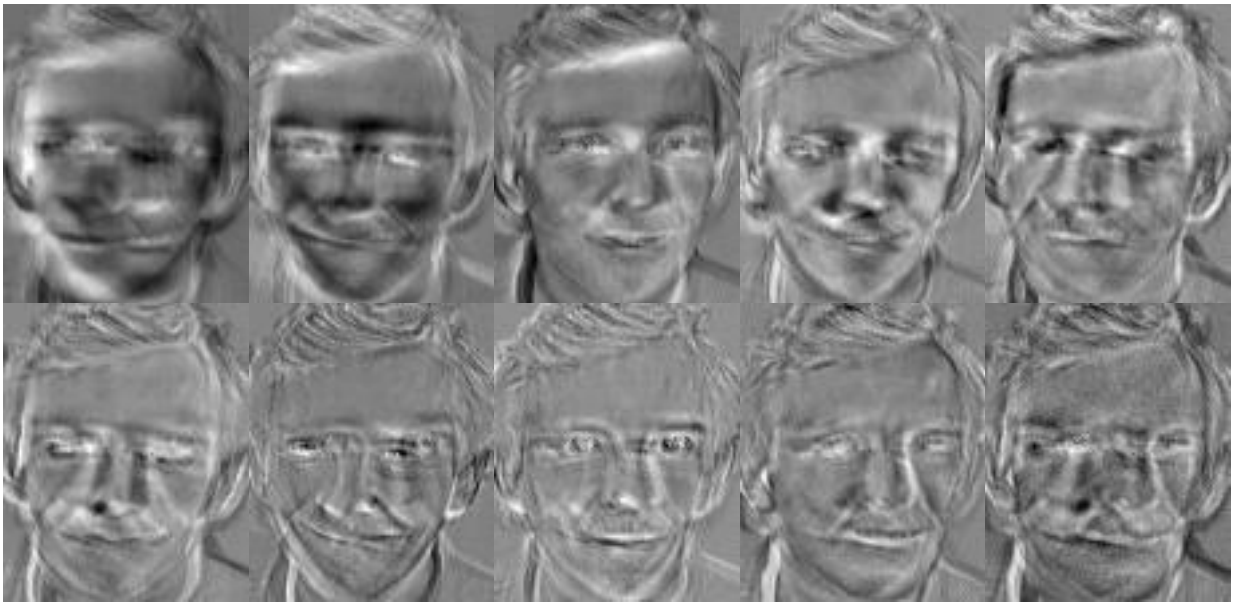
4.1) The mean vector of the HepatitisC data set

[1.164 3.916 0.448 5.679 4.865 3.778 4.127 3.604 0.217]

4.2) The covariance matrix of the HepatitisC data set

[[5.876 0.245 -0.004 -0.284 -0.346 -0.417 -0.481 -0.267 -0.067]
[0.245 7.567 0.073 -0.358 -0.346 0.257 2.271 0.945 -0.032]
[-0.004 0.073 0.247 -0.116 -0.039 -0.003 0.100 0.066 -0.005]
[-0.284 -0.358 -0.116 16.950 7.964 4.440 -1.036 -0.306 0.047]
[-0.346 -0.346 -0.039 7.964 8.356 4.918 -0.762 -0.752 -0.001]
[-0.417 0.257 -0.003 4.440 4.918 6.679 -0.087 -0.376 -0.141]
[-0.481 2.271 0.100 -1.036 -0.762 -0.087 20.570 1.121 0.014]
[-0.267 0.945 0.066 -0.306 -0.752 -0.376 1.121 4.315 0.119]
[-0.067 -0.032 -0.005 0.047 -0.001 -0.141 0.014 0.119 0.170]]

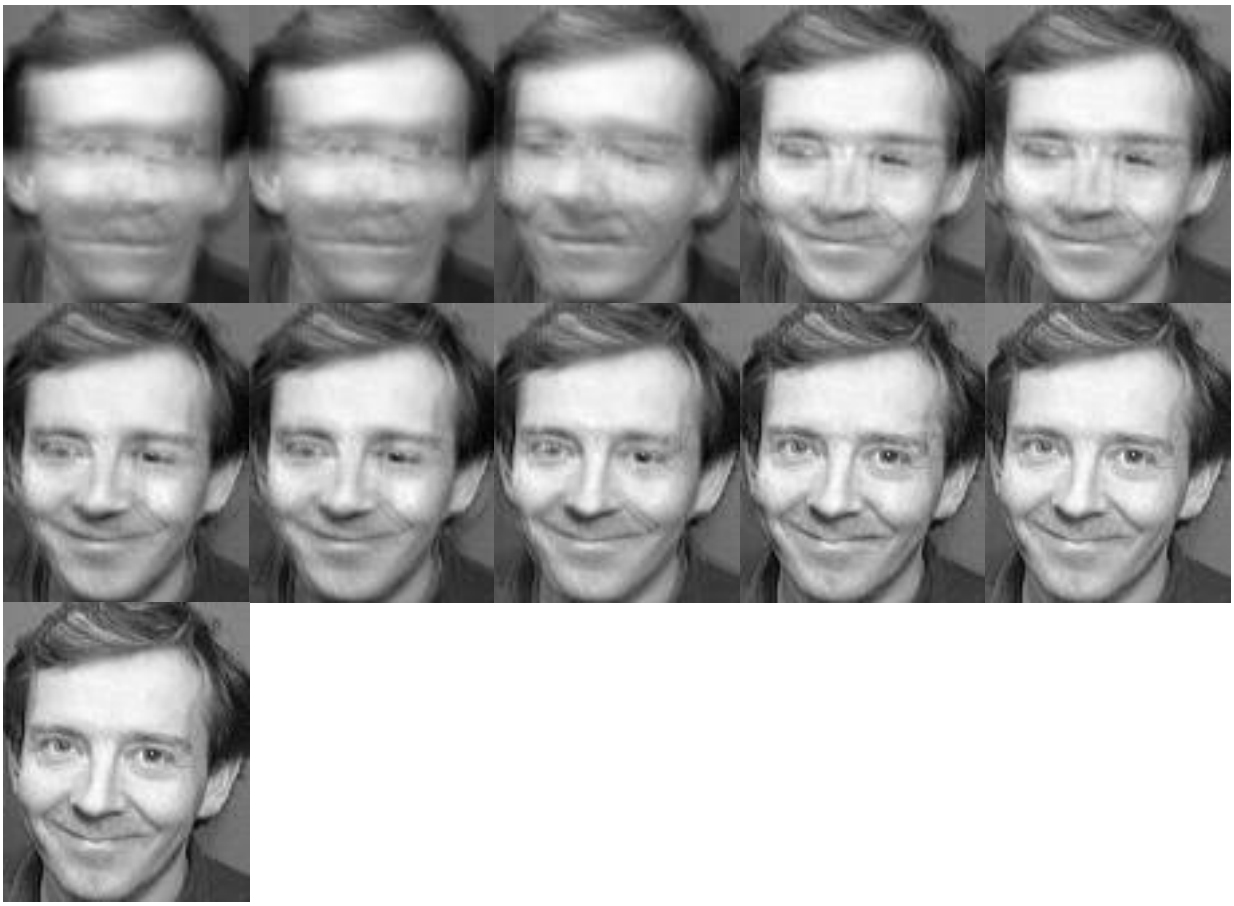
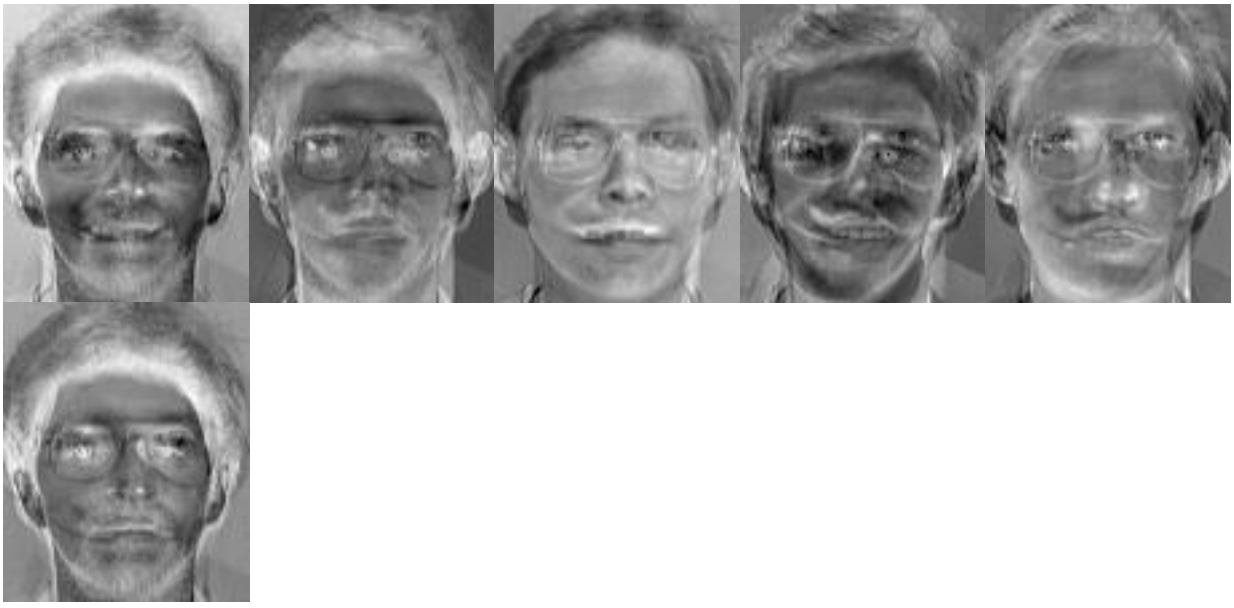
4.3) Eigenface images (0 to 9)



4.4) The component magnitudes for 'c.pgm'

[1206.254 -1590.133 -248.136 -821.249 246.009 -771.900 963.633 376.967 161.599 -533.276]

4.5) Partial reconstructions (0 to 10)



4.6) Eigenfaces and partial reconstructions using PrincipalComponents()