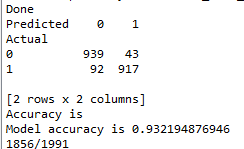
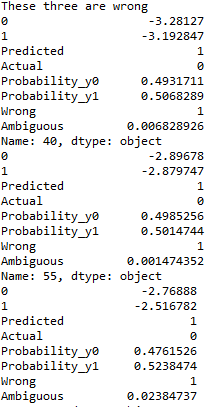
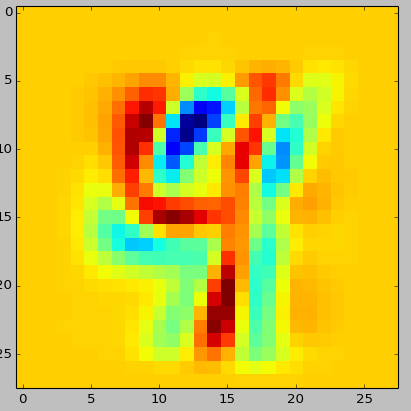
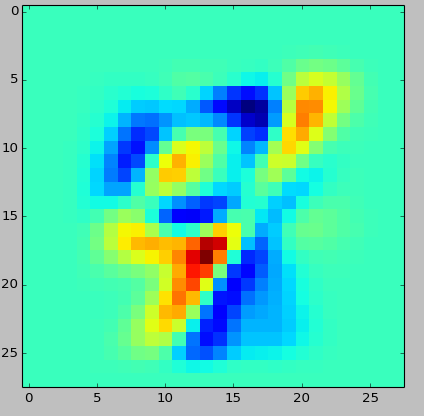
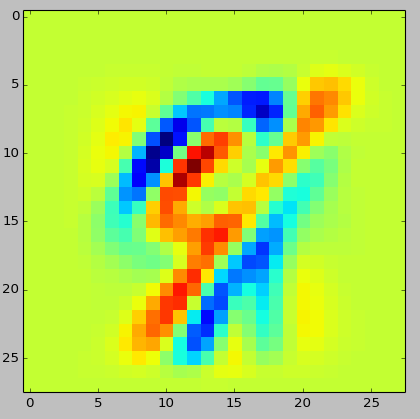
4)a) done, code attached

4)b)



4)c)





4)d)

