4)a) done, code attached

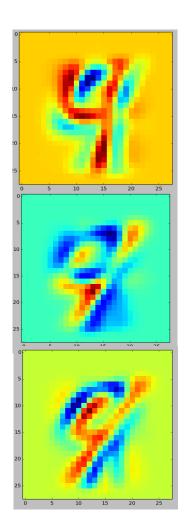
4)b)

Done Predicted Actual 0	939 92	1 43 917	-	_ ,	
[2 rows x 2 columns] Accuracy is Model accuracy is 0.932194876946 1856/1991					

4)c)

These three are w	vrong
0	-3.28127
1	-3.192847
Predicted	1
Actual	0
Probability y0	0.4931711
Probability y1	0.5068289
Wrong	1
Ambiguous	0.006828926
Name: 40, dtype:	object
0	-2.89678
1	-2.879747
Predicted	1
Actual	0
Probability_y0	0.4985256
Probability_y1	0.5014744
Wrong	1
Ambiguous	0.001474352
Name: 55, dtype:	object
0	-2.76888
1	-2.516782
Predicted	1
Actual	0
Probability_y0	0.4761526
Probability_y1	0.5238474
Wrong	1
Ambiguous	0.02384737
-	

Name: 64, dtype: object



4)d)

Three most ambigu	ous
0	-3.535112
1	-3.537115
Predicted	0
Actual	1
Probability_y0	0.5001416
Probability y1	0.4998584
Wrong	1
Ambiguous	0.0001416222
Name: 1988, dtype	: object
0	-1.965257
1	-1.963564
Predicted	1
Actual	0
Probability y0	0.4997846
Probability_y1	0.5002154
Wrong	1
Ambiguous	0.0002153807
Name: 195, dtype:	object
0	-2.981896
1	-2.984986
Predicted	0
Actual	0
Probability_y0	0.500259
Probability_y1	0.499741
Wrong	0
Ambiguous	0.0002589667
Name: 81, dtype:	object
	-

