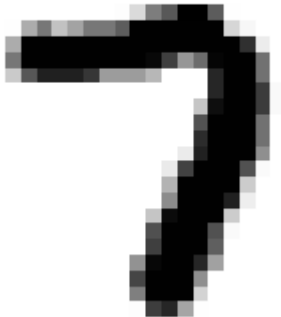


Python 3.6.2 |Anaconda custom (64-bit)| (default, Sep 19 2017, 08:03:39) [MSC v.1900 64 bit (AMD64)]

Type "copyright", "credits" or "license" for more information.

IPython 6.1.0 -- An enhanced Interactive Python.

In [1]: runfile('C:/Users/raven/Google Drive/MSEE/EE 258/Projects/Project 1/K-NN.py', wdir='C:/Users/raven/Google Drive/MSEE/EE 258/Projects/Project 1')



prediction is [7.]

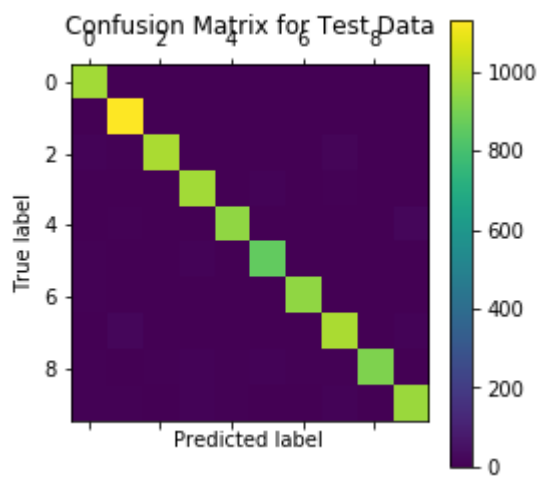
label is 7.0

Predicted Labels for Test Images: [5. 8. 7. ..., 3. 3. 4.]

The Cross-Validation score is [0.96960608 0.96839842 0.9679952]

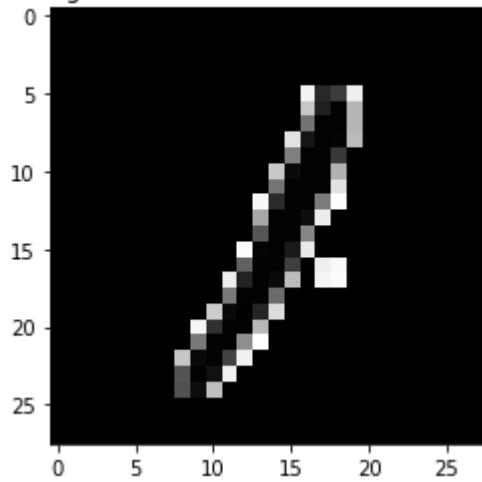
The Confusion Matrix for Test Data:

[	974	1	1	0	0	1	2	1	0	0]
[	0	1133	2	0	0	0	0	0	0	0]
[	11	8	991	2	1	0	1	15	3	0]
[	0	3	3	976	1	13	1	6	3	4]
[	3	7	0	0	944	0	4	2	1	21]
[	5	0	0	12	2	862	4	1	2	4]
[	5	3	0	0	3	2	945	0	0	0]
[	0	22	4	0	3	0	0	988	0	11]
[	8	3	5	13	6	12	5	5	913	4]
[	5	7	3	9	7	3	1	10	2	962]]

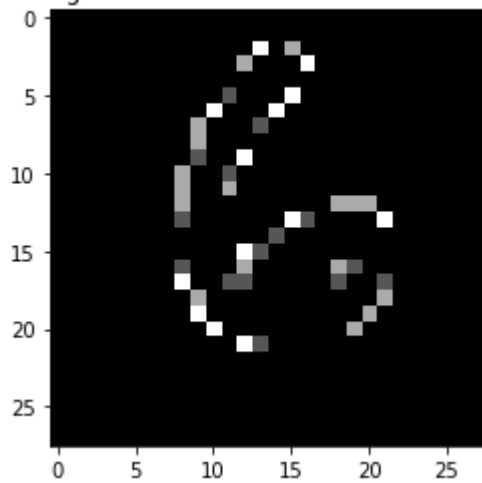


The Test error for Linear Classifier is 6280.0

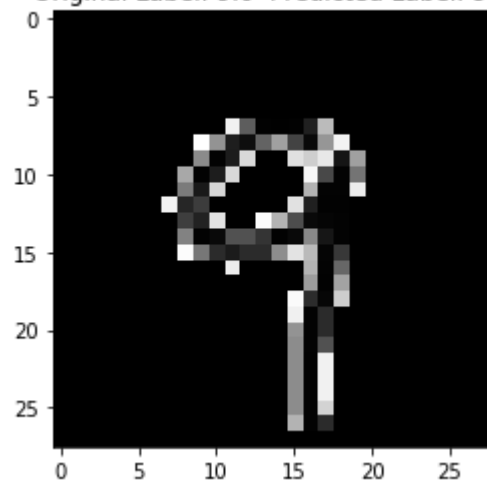
Original Label: 1.0 Predicted Label: 1.0



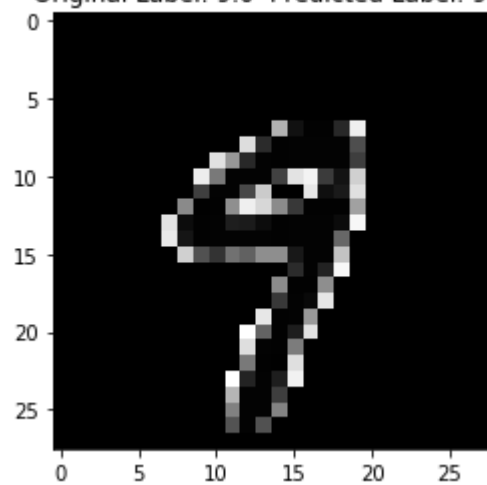
Original Label: 6.0 Predicted Label: 6.0



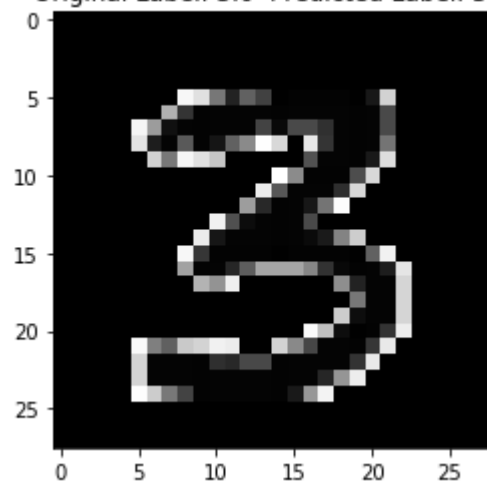
Original Label: 9.0 Predicted Label: 9.0



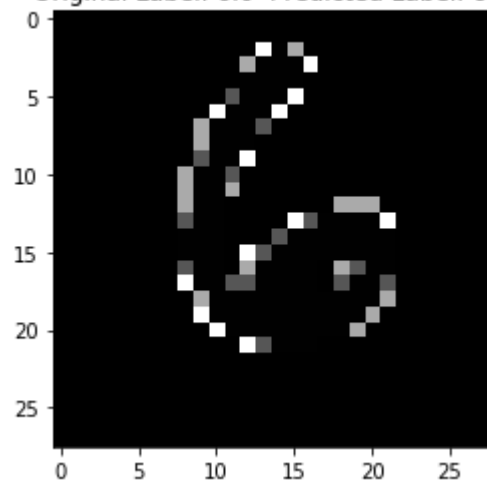
Original Label: 9.0 Predicted Label: 9.0



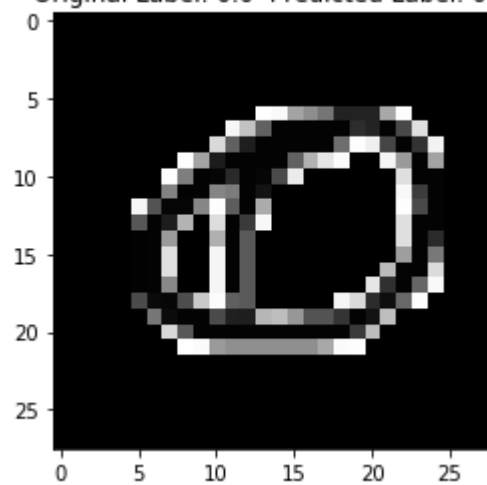
Original Label: 3.0 Predicted Label: 3.0



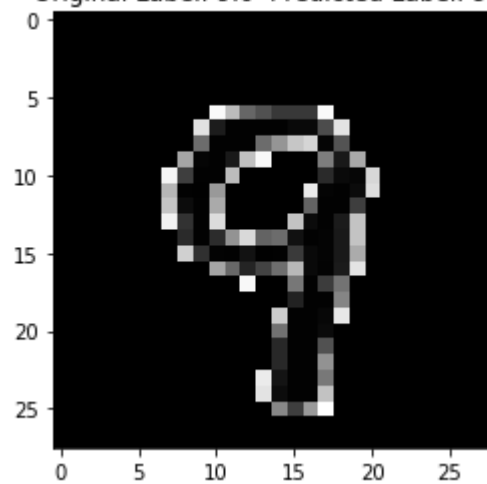
Original Label: 6.0 Predicted Label: 6.0



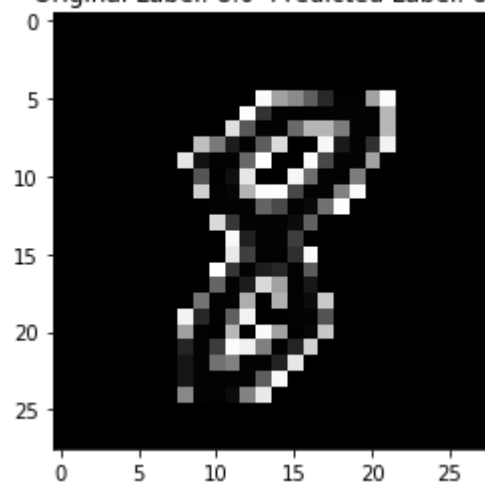
Original Label: 0.0 Predicted Label: 0.0



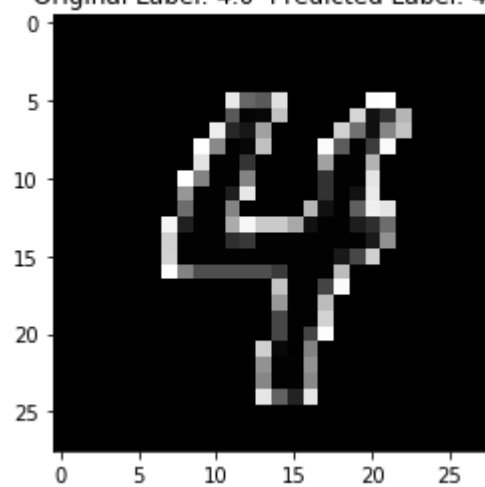
Original Label: 9.0 Predicted Label: 9.0



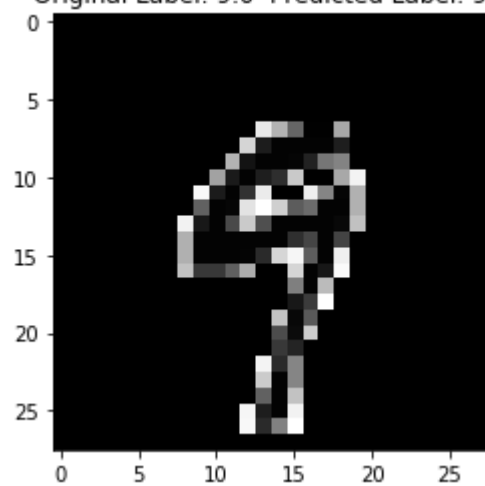
Original Label: 8.0 Predicted Label: 8.0



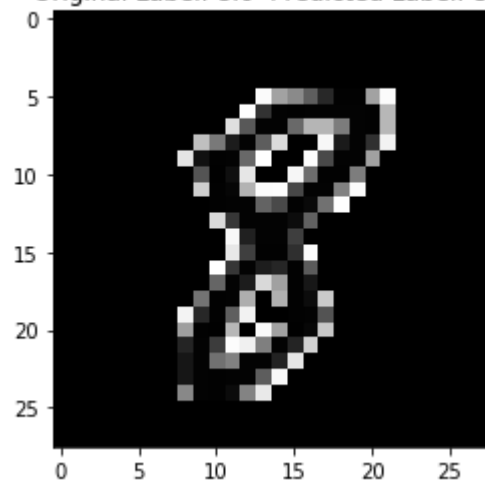
Original Label: 4.0 Predicted Label: 4.0



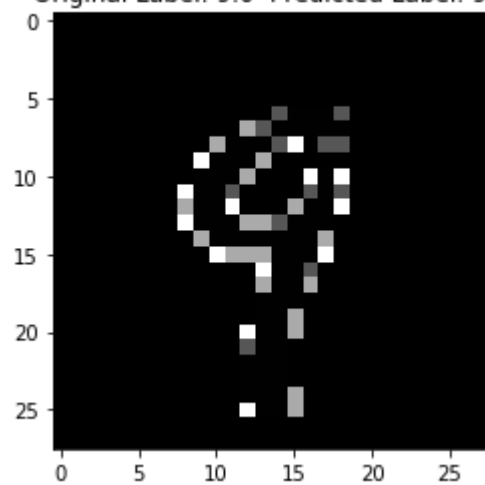
Original Label: 9.0 Predicted Label: 9.0



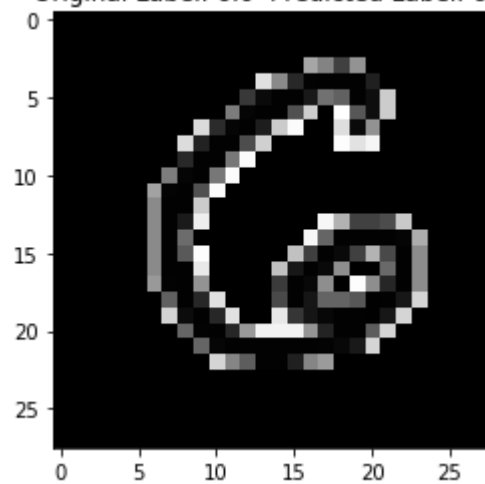
Original Label: 8.0 Predicted Label: 8.0



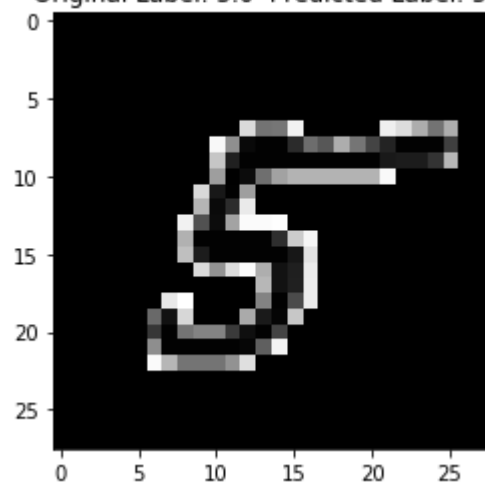
Original Label: 9.0 Predicted Label: 9.0



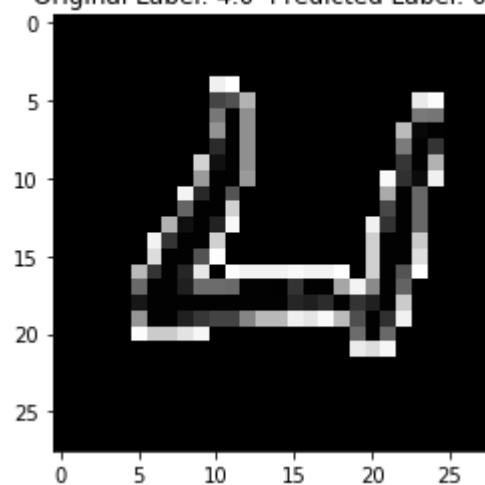
Original Label: 6.0 Predicted Label: 6.0



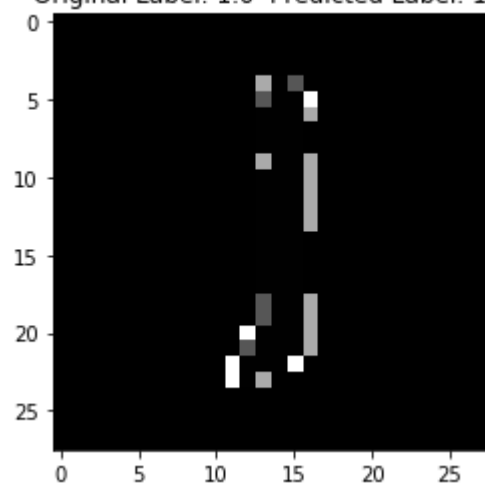
Original Label: 5.0 Predicted Label: 5.0



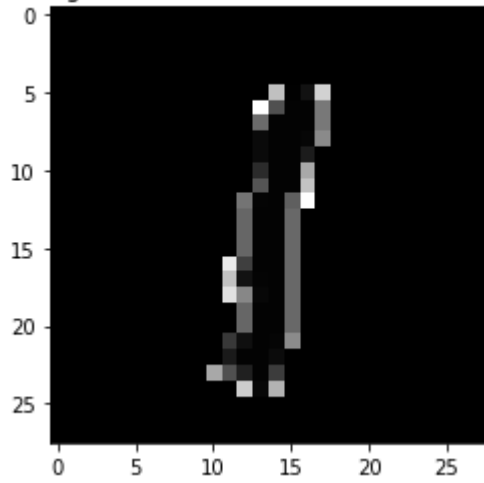
Original Label: 4.0 Predicted Label: 0.0



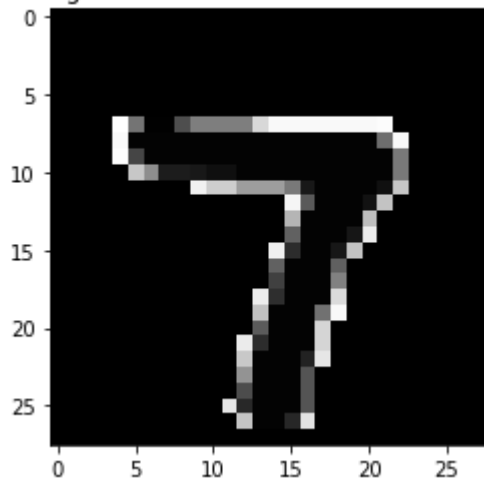
Original Label: 1.0 Predicted Label: 1.0



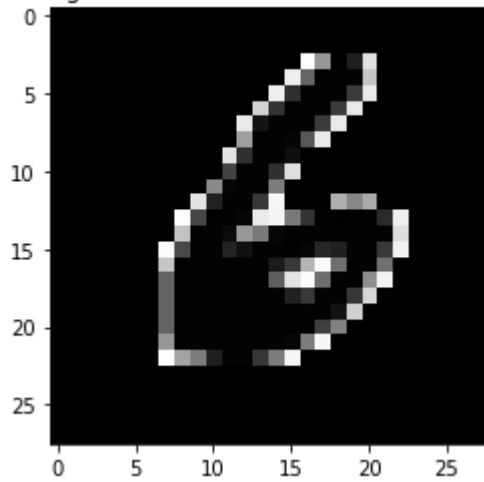
Original Label: 1.0 Predicted Label: 1.0



Original Label: 7.0 Predicted Label: 7.0



Original Label: 6.0 Predicted Label: 6.0



The Models Accuracy is 0.9688

In [2]: