CSE/ECE 343/543: Machine Learning Assignment-3B

Q1.

Train (for 10000 epochs):

Acc = 98.438

Error = 0.0425

Validation:

Acc= 92.56

Error = 0.0525

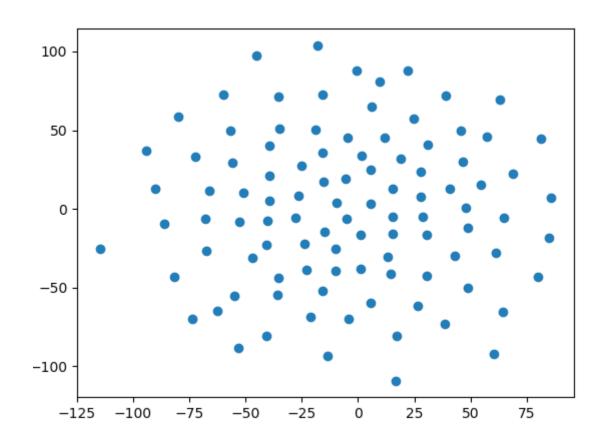
Test:

Acc= 93.25

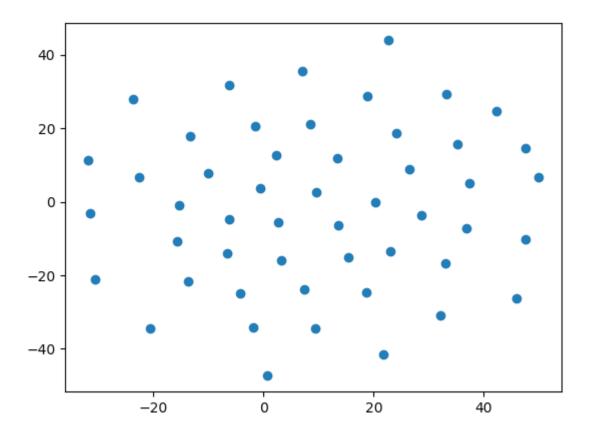
Error = 0.0501

c) Weights plots

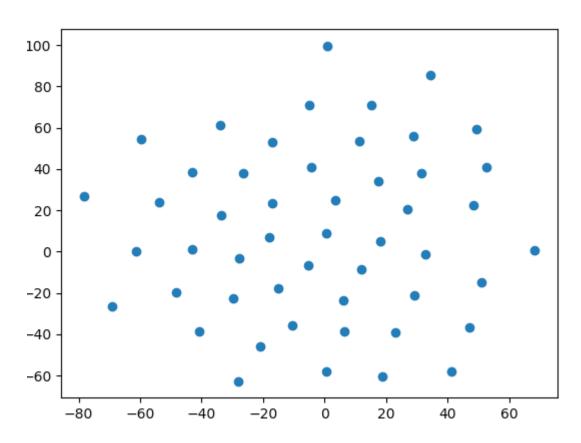
W1:



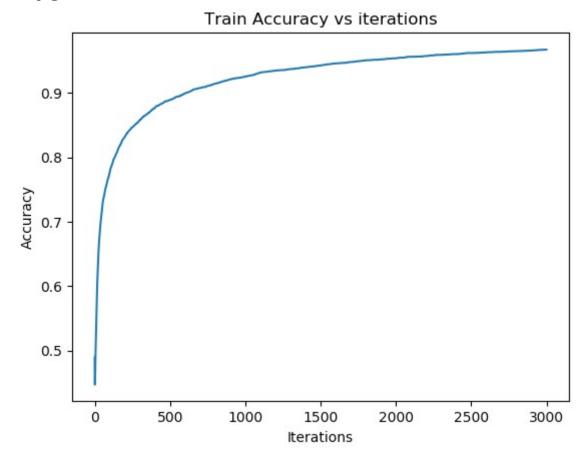
w2:

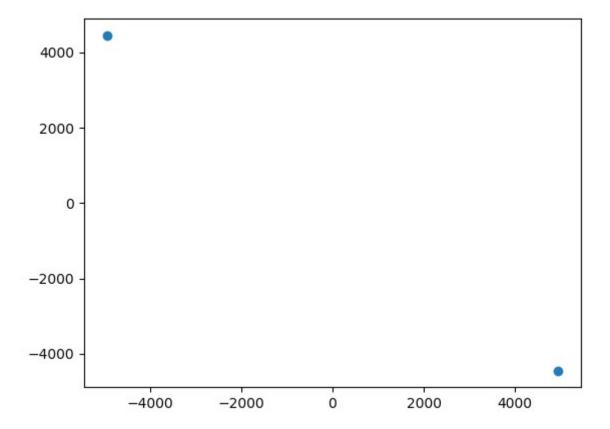


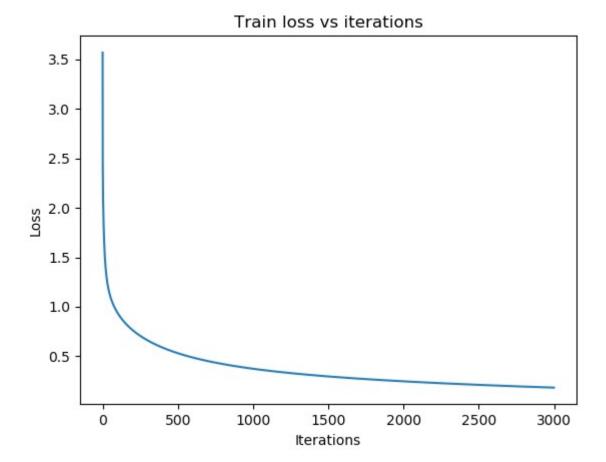
w3:

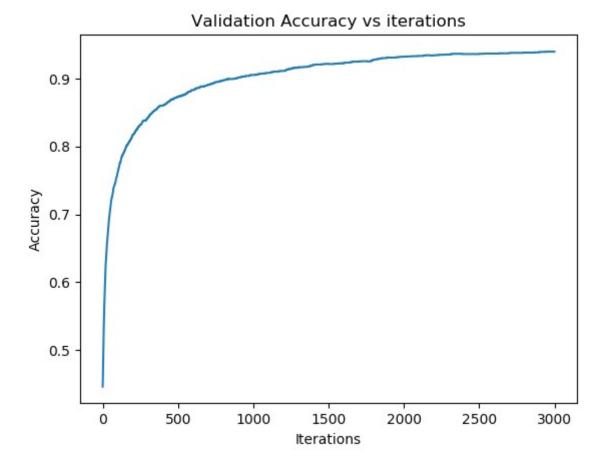


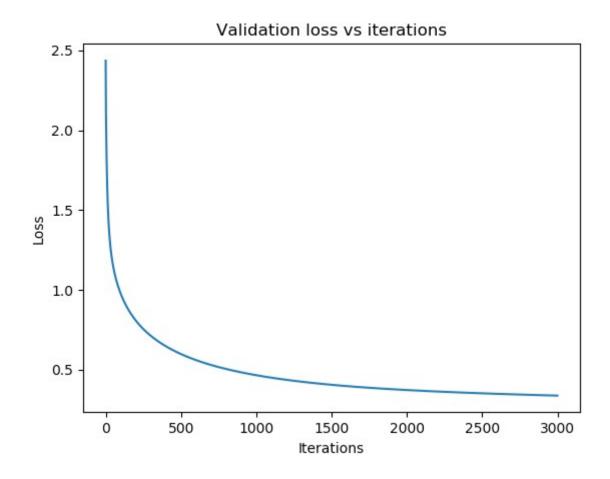
Accuracy plot:











Q2:

Test Accuracy: 0.8145

Confusion Matrix : [[798,123] [248,831]]

Roc curve:

Noc cui ve.

