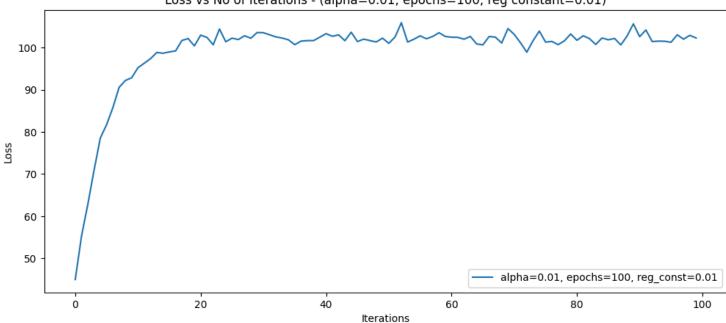
Experiment 1 with alpha=0.01, epochs=100, reg\_const=0.01

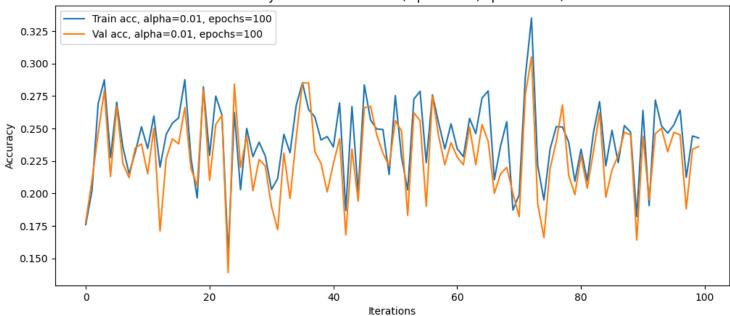
# Experiment 1 Softmax, vyeruban

## Loss vs No of Iterations - (alpha=0.01, epochs=100, reg constant=0.01)



# Experiment 1 Softmax, vyeruban

## Accuracy vs No of Iterations - (alpha=0.01, epochs=100)



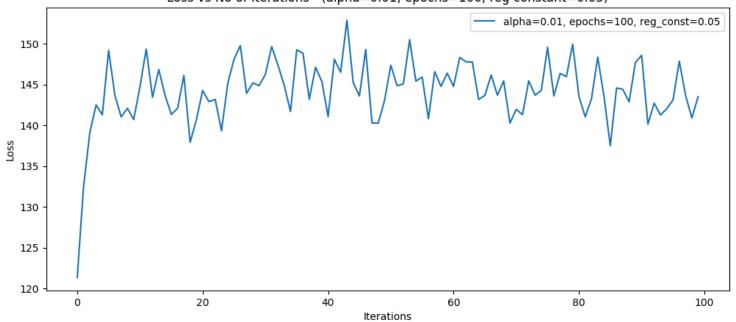
Training Accuracy: 24.259183673469387 Validation Accuracy: 23.59999999999998

Test Accuracy:23.3

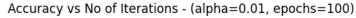
Experiment 2 with alpha=0.01, epochs=100, reg\_const=0.05

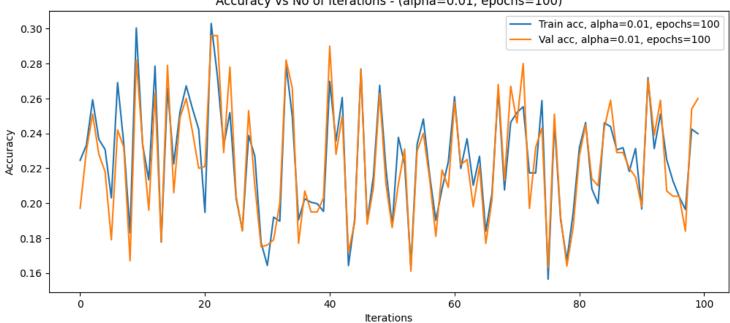
## Experiment 2 Softmax, vyeruban

Loss vs No of Iterations - (alpha=0.01, epochs=100, reg constant=0.05)



Experiment 2 Softmax, vyeruban





Training Accuracy: 23.981632653061226

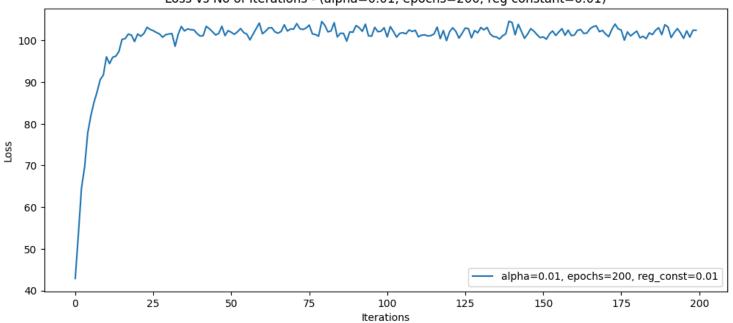
Validation Accuracy: 26.0

Test Accuracy:23.7

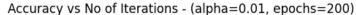
Experiment 3 with alpha=0.01, epochs=200, reg\_const=0.01

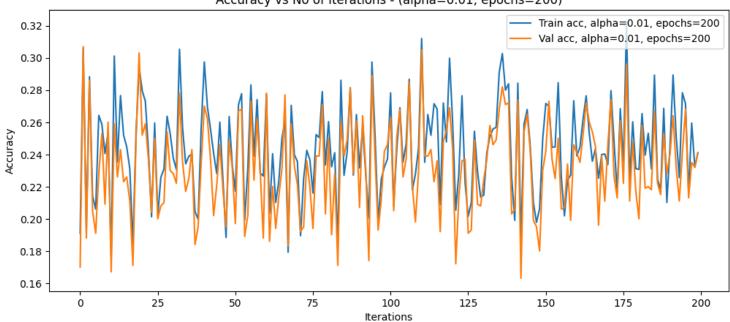
## Experiment 3 Softmax, vyeruban

Loss vs No of Iterations - (alpha=0.01, epochs=200, reg constant=0.01)



Experiment 3 Softmax, vyeruban





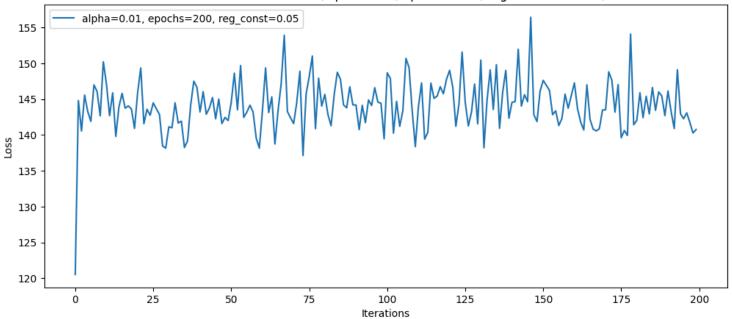
Training Accuracy: 24.10408163265306 Validation Accuracy: 24.09999999999999

Test Accuracy: 22.48

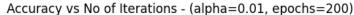
Experiment 4 with alpha=0.01, epochs=200, reg\_const=0.05

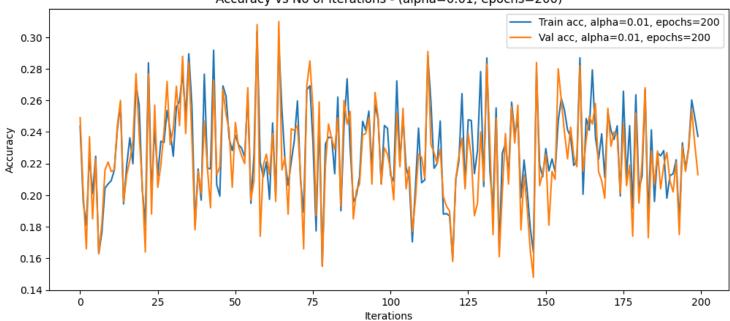
## Experiment 4 Softmax, vyeruban

Loss vs No of Iterations - (alpha=0.01, epochs=200, reg constant=0.05)



Experiment 4 Softmax, vyeruban





Training Accuracy: 23.72448979591837

Validation Accuracy: 21.3

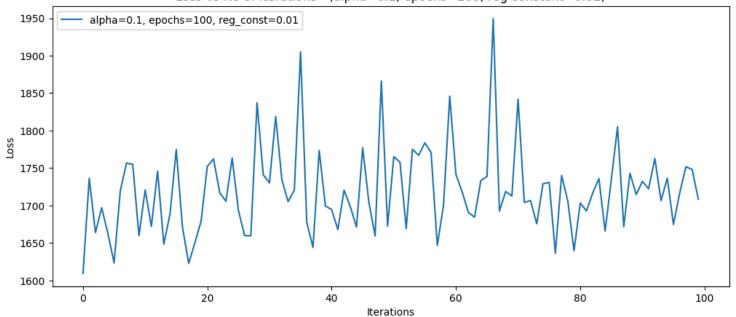
Test Accuracy:22.54

Experiment 5 with alpha=0.1, epochs=100, reg\_const=0.01

0.28

#### Experiment 5 Softmax, vyeruban

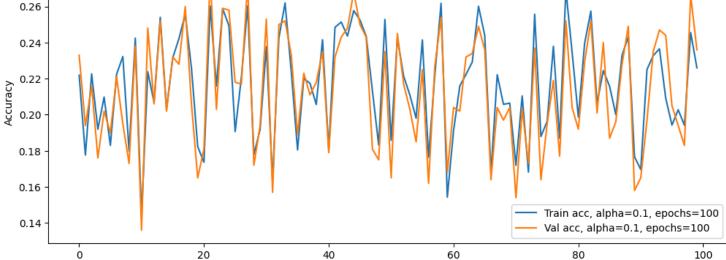
Loss vs No of Iterations - (alpha=0.1, epochs=100, reg constant=0.01)



Experiment 5 Softmax, vyeruban

Accuracy vs No of Iterations - (alpha=0.1, epochs=100)





Iterations

Training Accuracy: 22.6

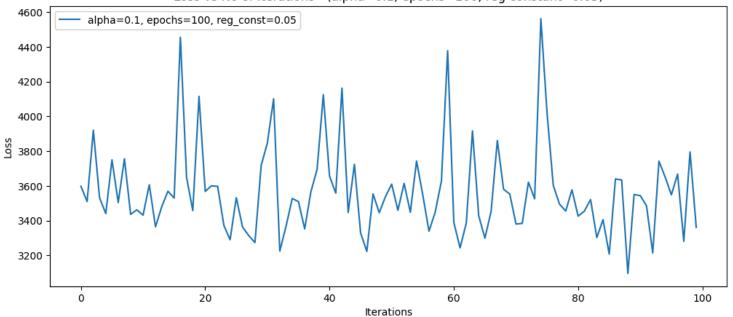
Validation Accuracy: 23.59999999999998

Test Accuracy:23.02

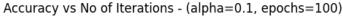
Experiment 6 with alpha=0.1, epochs=100, reg\_const=0.05

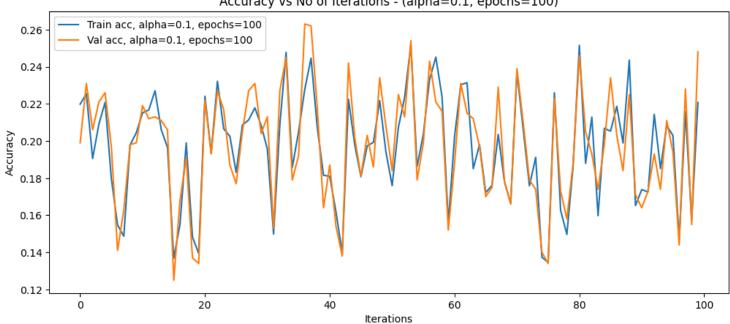
#### Experiment 6 Softmax, vyeruban

Loss vs No of Iterations - (alpha=0.1, epochs=100, reg constant=0.05)



Experiment 6 Softmax, vyeruban





Training Accuracy: 22.0734693877551

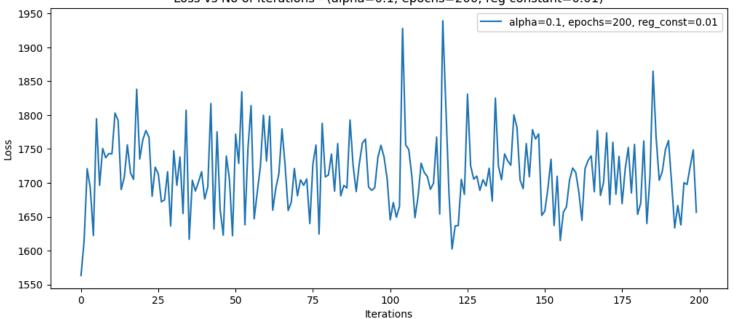
Validation Accuracy: 24.8

Test Accuracy:21.6

Experiment 7 with alpha=0.1, epochs=200, reg\_const=0.01

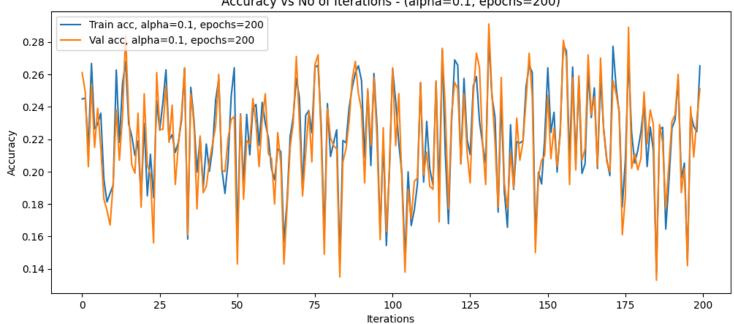
#### Experiment 7 Softmax, vyeruban

Loss vs No of Iterations - (alpha=0.1, epochs=200, reg constant=0.01)



Experiment 7 Softmax, vyeruban

Accuracy vs No of Iterations - (alpha=0.1, epochs=200)



Training Accuracy: 26.518367346938774

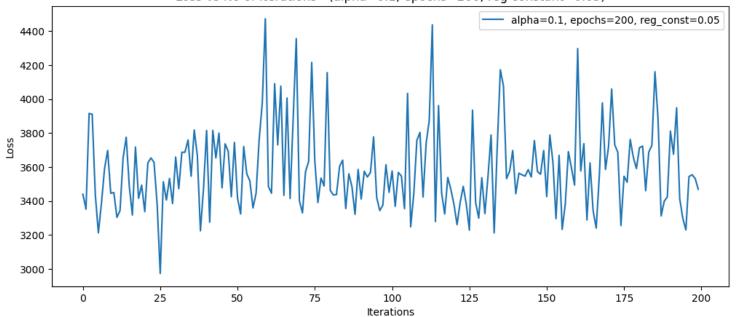
Validation Accuracy: 25.1

Test Accuracy: 25.31999999999997

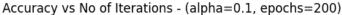
Experiment 8 with alpha=0.1, epochs=200, reg\_const=0.05

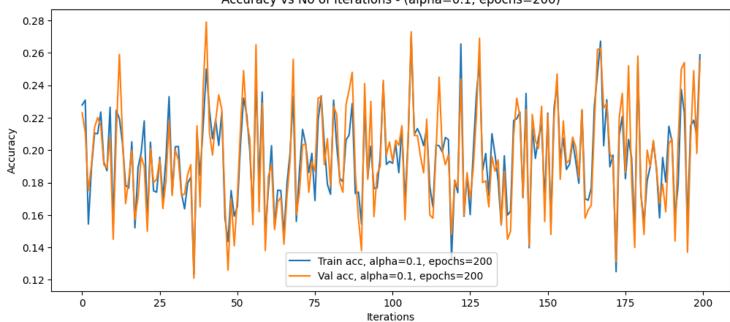
#### Experiment 8 Softmax, vyeruban

Loss vs No of Iterations - (alpha=0.1, epochs=200, reg constant=0.05)



Experiment 8 Softmax, vyeruban





Training Accuracy: 25.875510204081632

Validation Accuracy: 25.5

Test Accuracy: 26.2799999999998

Best alpha: 0.1, Best epochs: 200, Best accuracy: 26.2799999999998, Best Regularization Constant: 0.05