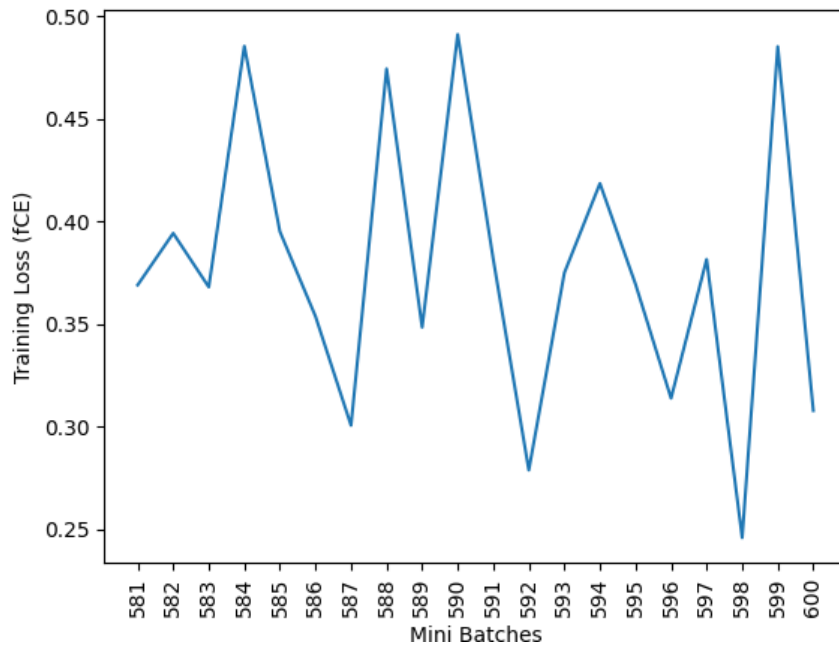


# CS 4342 - Machine Learning

## Homework - 3 Softmax regression and Titanic Disaster Challenge

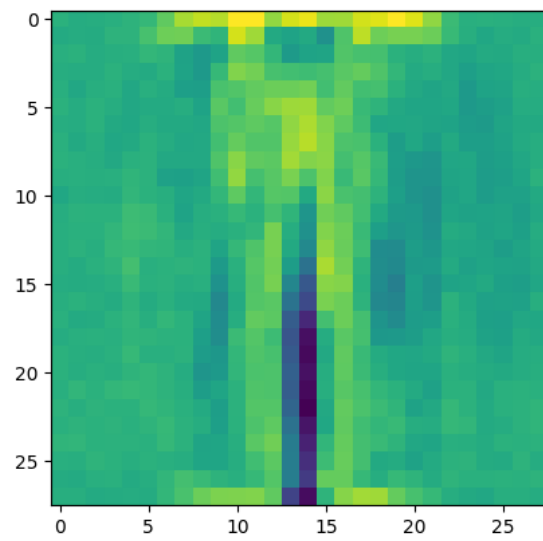
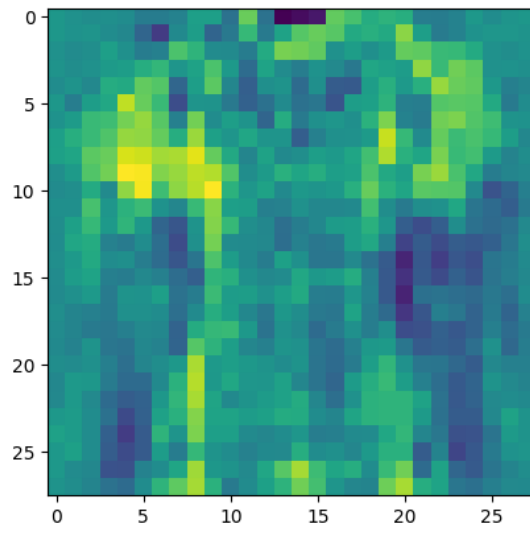
a. Training Loss during the last twenty mini-batches of the last epoch:

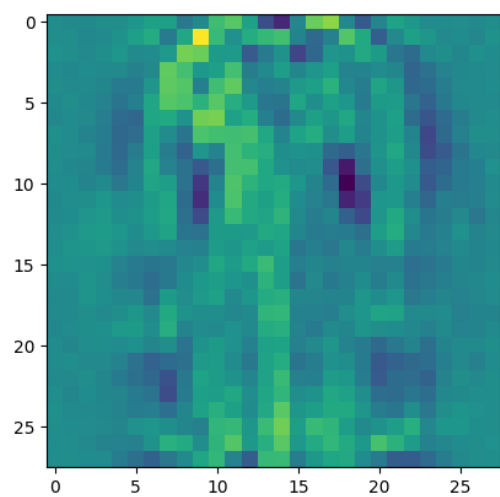
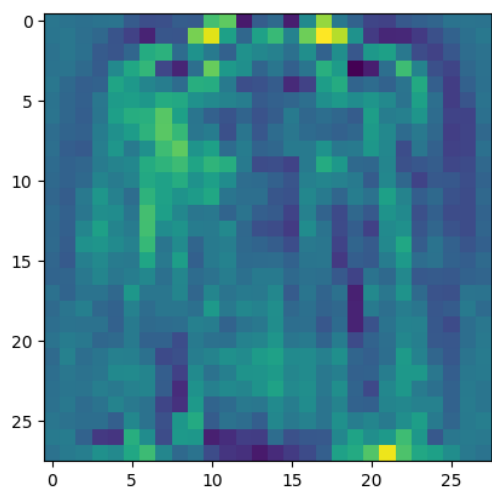


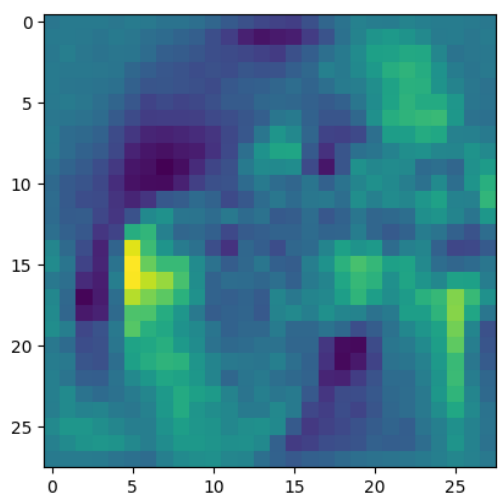
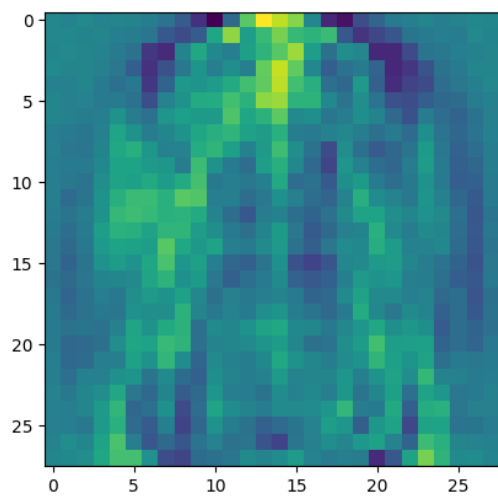
b. CE loss and PC accuracy on the Test set (includes PC for the training data as well)

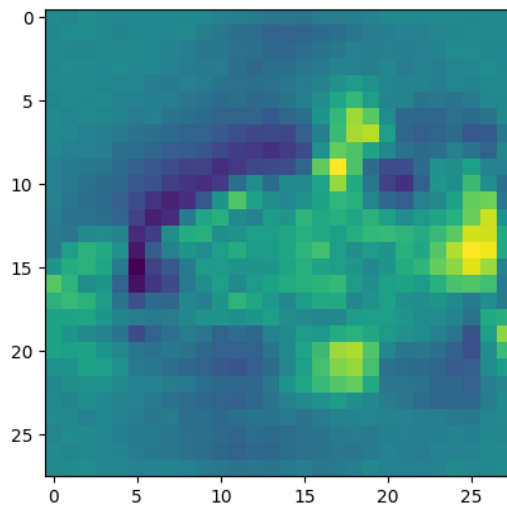
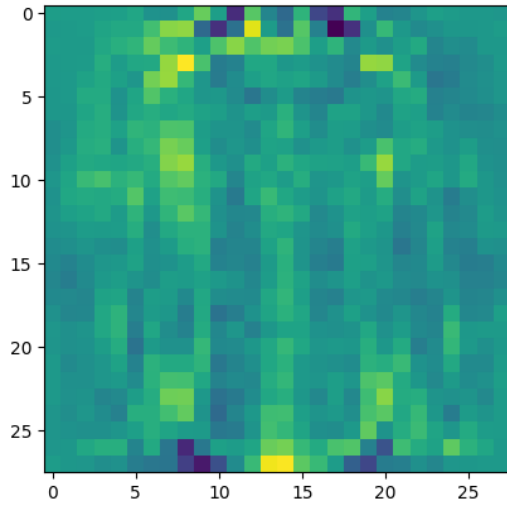
```
Training Accuracy (fPC): 0.86
Testing Accuracy (fPC): 0.842
Testing Loss (fCE): 0.45215715385915384
```

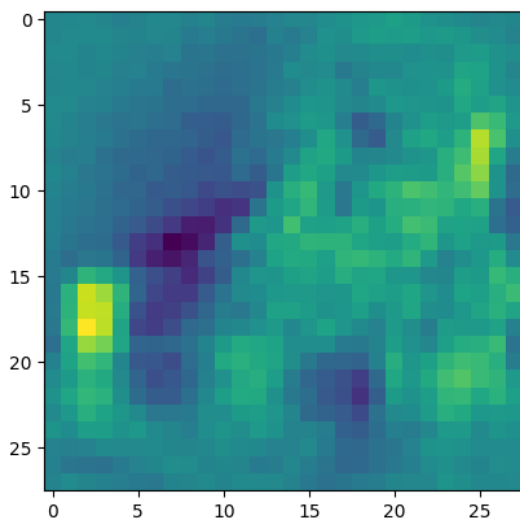
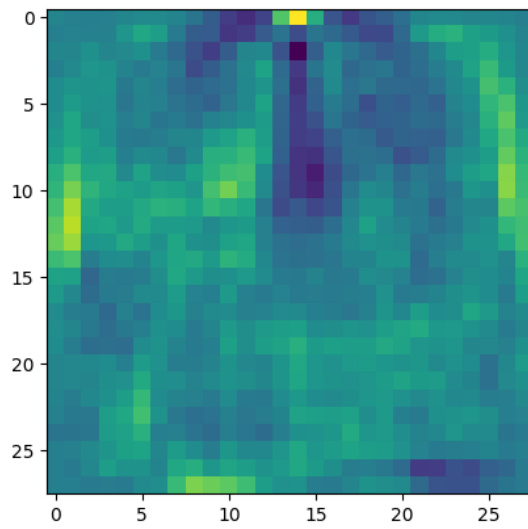
c. Visualizing trained weights:











Accuracy of the Softmax Regression Model on the Titanic test data: 0.77272