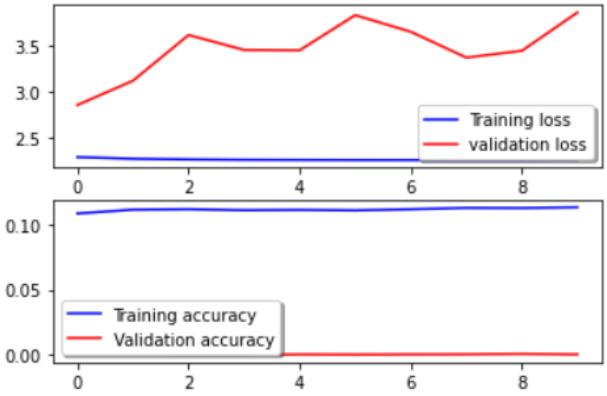
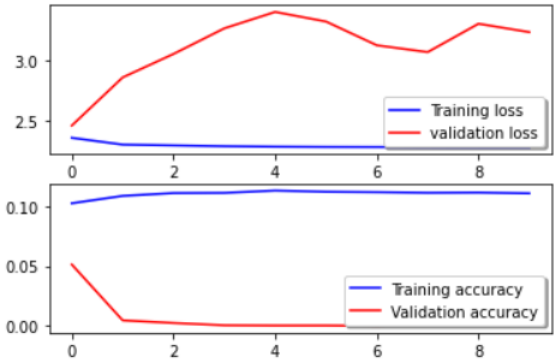
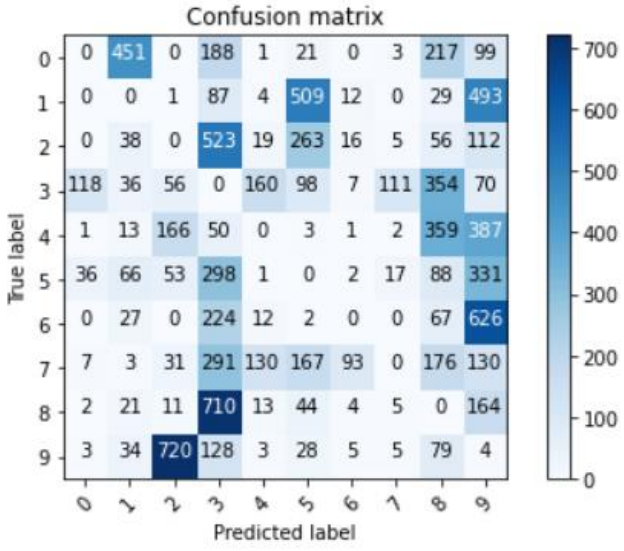
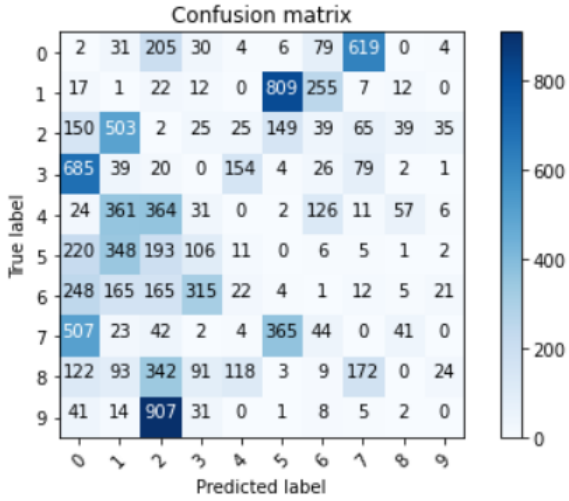
Comparison Between training from randomly initialized network and training on weights of datasets of first task

Randomly initialized network	On weights of datasets of first task
Accuracy: 4.0000e-04	Accuracy: 6.0000e-04
	
	

As we can see that accuracy is almost negligible, that is because the dataset has been labeled randomly, and it is faulty. So as we can see in the training accuracy chart that even when we used the pre trained weights, the accuracy dropped as we are training on a faulty data of so many images. Even in the confusion matrix, the numbers on the diagonal are really few, and are randomly anywhere in the matrix

When we used the pre-defined weights, the algorithm converged after the 1st epoch, but in the randomly initialized network it remained constant.

From the confusion matrix we can also calculate various other metrics such as accuracy, precision, recall, F1-score, ROC, AUC, etc but we know those things will be extremely low as well.