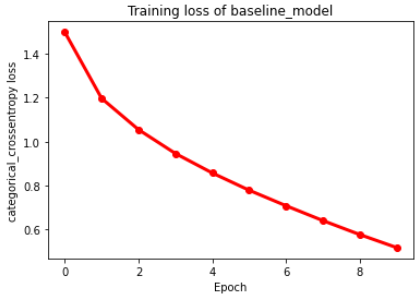
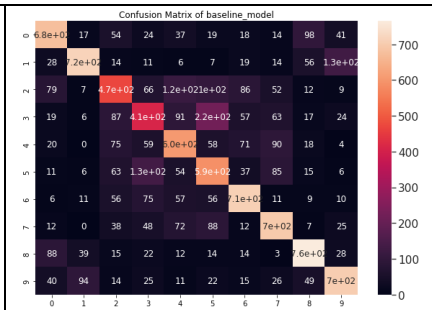
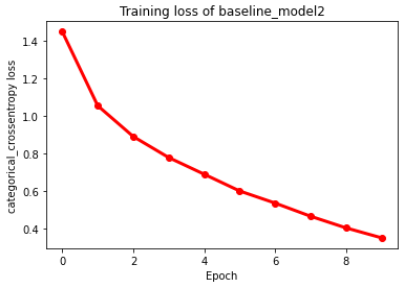
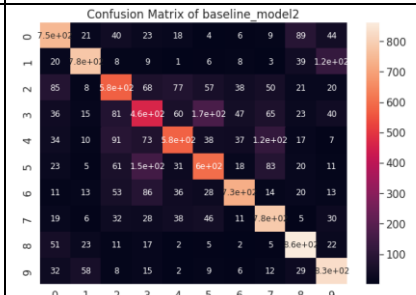
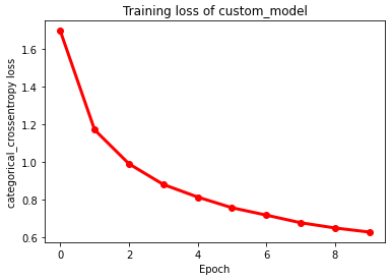
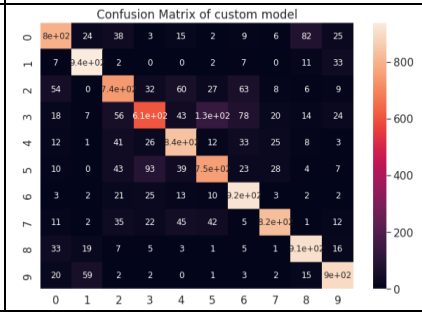
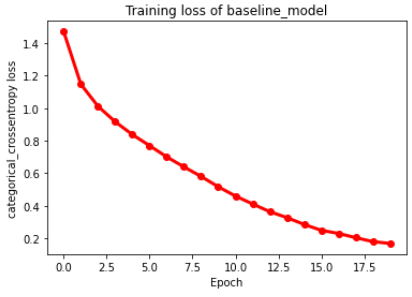
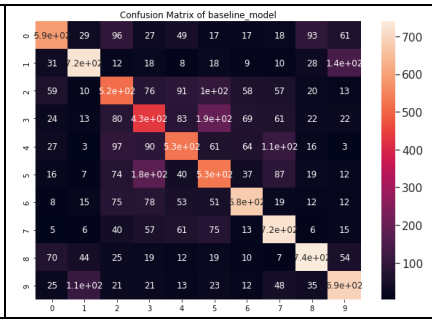
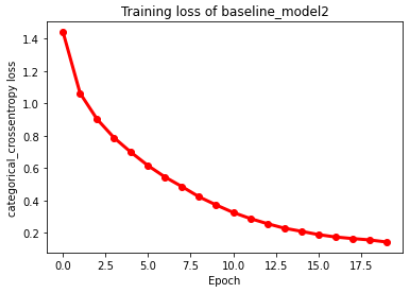
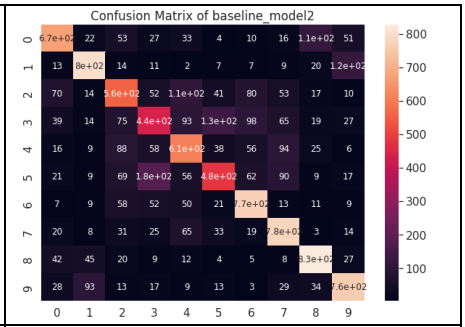
CNN-OBJECTCLASSIFICATION-CIFAR10

In this activity, we have to implement the classification problem on cifar10 dataset with three different models architecture. The baseline model was given and I implement the baseline_model2 according to instructions given in the file. Furthermore, I build my own model architecture with different parameter configuration. After that I plot the model error, confusion matrix and accuracy to show the difference between these three models.

Custom model accuracy is higher than all the other models, its 82.24 %. So the custom model is working well than the other models.

Model_type	Accuracy	Training Graph	Confusion matrix
For epoch 10 and batch size 32			
Baseline_model	63.48		
Baseline_model2	69.43		
Custom_model	82.24		
For epoch 30 and batch size 32			
Baseline_model	61.52		

Baseline_model2	66.98		
Custom_model	82.84