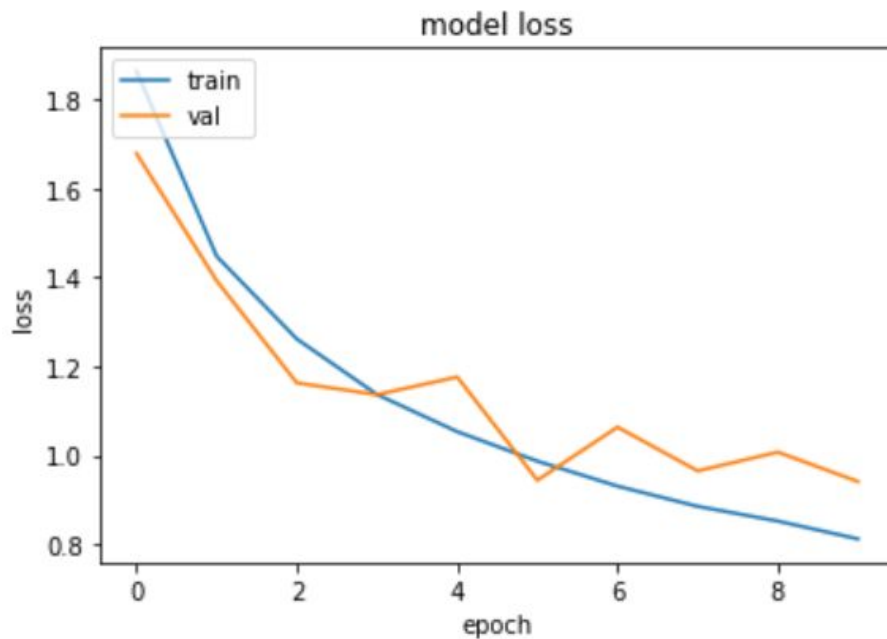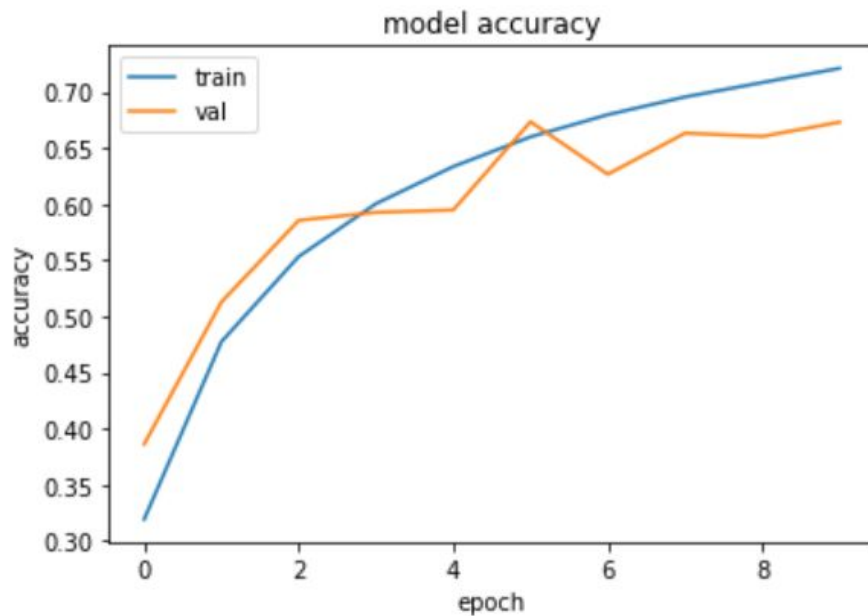Part a)
Used the same architecture as mentioned with some dropouts after convolution and dense total
dropout used 2 time as with increase in no of dropout was getting low accuracy used various
learning rate but got better results with rms prop.Between im running only 10 epochs to get this
decent accuracy.
Here are some of the graphs.

Part b)

Found out that if we increase the repetition of same convolution it yields better results experimented with it by adding 6 layers out of which every 2 are same.Then used the same Dense network as mentioned in the assignment for part a thought with one dropout. Between them.Here also i used rms prop for learning rate.
Here are the related graphs