# Convolution Neural Network

## Lab Task

**Given the python notebook for the basic CNN model implementation, perform the following set of tasks and report in detail of your results. CIFAR-10 dataset will be used.**

1. **Run the code and note down the model accuracy and loss function for the given set of parameters.**
2. **You need to fine-tune your model hyper-parameters and report any change in accuracy or loss function.**
3. **Your output should be in the form of accuracy, loss values and curves as well.**

- The hyperparameters to tune could be the number of neurons, activation function, optimizer, learning rate, batch size, and epochs.
- You are given free hand to test different hyperparameters, make proper tables/figures to report the results and discuss in detail about the change you observe.
- The one having highest accuracy and optimal loss values will be given highest marks.
- Submit your code file and the report in word having all the reported results.