Mount Google Drive

In [ ]:
```
# Cell 1
from google.colab import drive
drive.mount('/content/drive')
```

Part1: Implementing CNN from Scratch

In [ ]:
```
# Cell 2
%cd /content/drive/MyDrive/'<path_to_unzipped_files>'/hw2/student_version
```

Load CIFAR-10 data

In [ ]:
```
# Cell 3
%cd data
!sh get_data.sh
%cd ..
```

Cross-check your implementation

In [ ]:
```
# Cell 3
# If you get an error saying test not found, add an __init__.py file in t
# tests directory
!python -m unittest tests.test_conv
```

Train your ConvNet

In [ ]:
```
# Cell 4
!python train.py
```

Visualize Part-1 training curve

In [ ]:
```
# Cell 5
from IPython.display import display, Image
display(Image(filename='./train.png', width=500))
```

Zip your Part-1 submission

In [ ]:
```
# Cell 6
!python3 collect_submission.py
```

Part2: PyTorch

In [ ]:
```
# Cell 7
%cd /content/drive/MyDrive/'hw2.zip (Unzipped Files)'/hw2/student_version
```

```
/content/drive/MyDrive/Colab Notebooks/f22-dl/hw2/part2-pytorch
```

Load CIFAR-10 data

In [ ]:
```
# Cell 8
```

```
%cd data
!sh get_data.sh
%cd ..
```

Train your Two-Layer Net

In [ ]:
```
# Cell 9
!python main.py --config configs/config_twolayer.yaml
```

Train your Vanilla ConvNet

In [ ]:
```
# Cell 10
!python main.py --config configs/config_vanilla_cnn.yaml
```

Train your own model

In [ ]:
```
# Cell 11
!python main.py --config configs/config_mymodel.yaml
```

Zip your Part-2 submission

In [ ]:
```
# Cell 12
# If you get an error saying test not found, add an __init__.py file in t
# tests directory
!python3 collect_submission.py
```

Assignment 2 Writeup

- Name: Arthur Scaquetti do Nascimento
- GT Email: anascimento7@gatech.edu
- GT ID: 903721548

How does the training curve in Part-1 look like?

What are the accuracies with these networks?

- Two-Layer Network:
- Vanilla ConvNet:
- My ConvNet model: