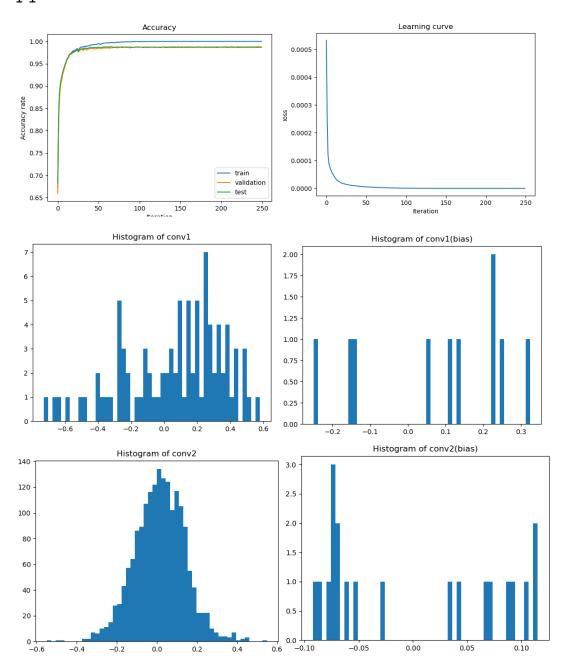
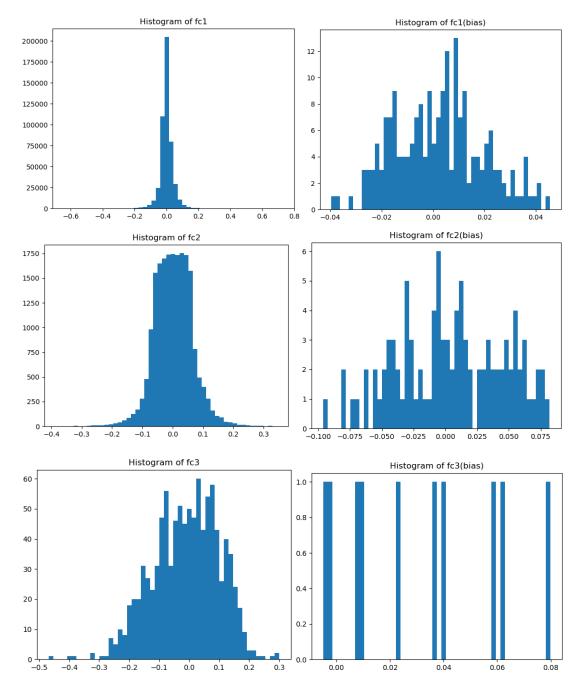
## **DEEP LEARNING (Fall 2020)**

## Homework 1

1-1





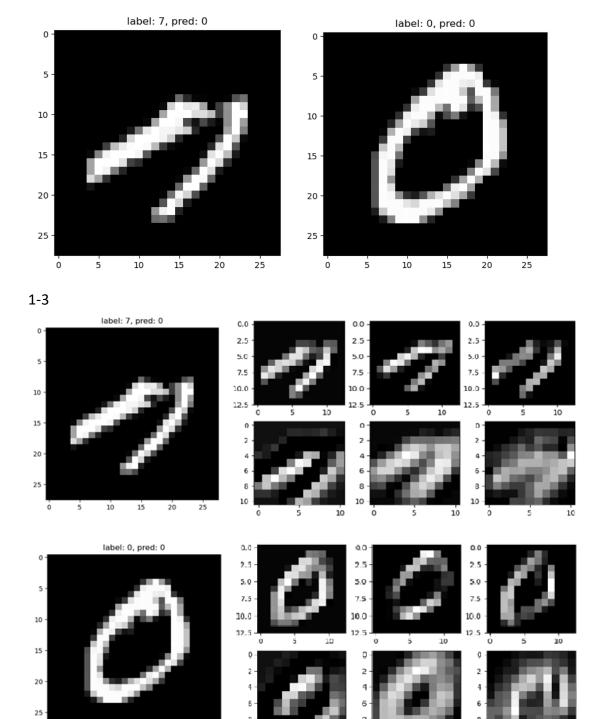
## Architecture:

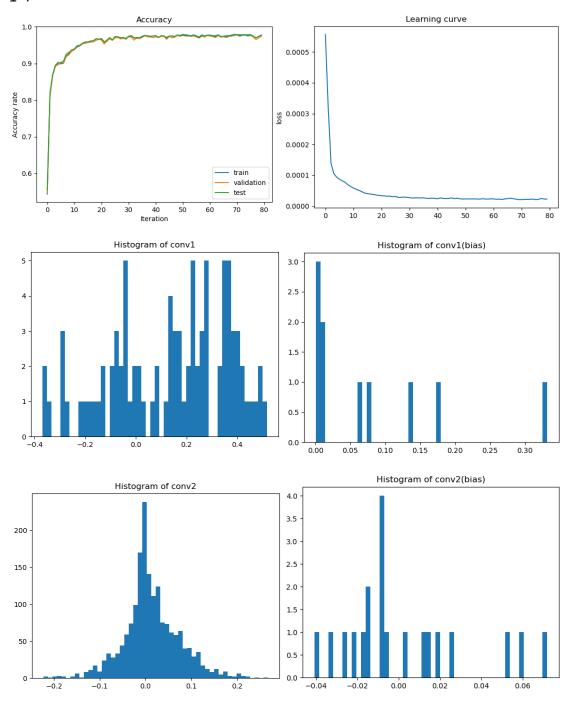
Inputs -> (channels=10, filter size=(3x3), stride=1)

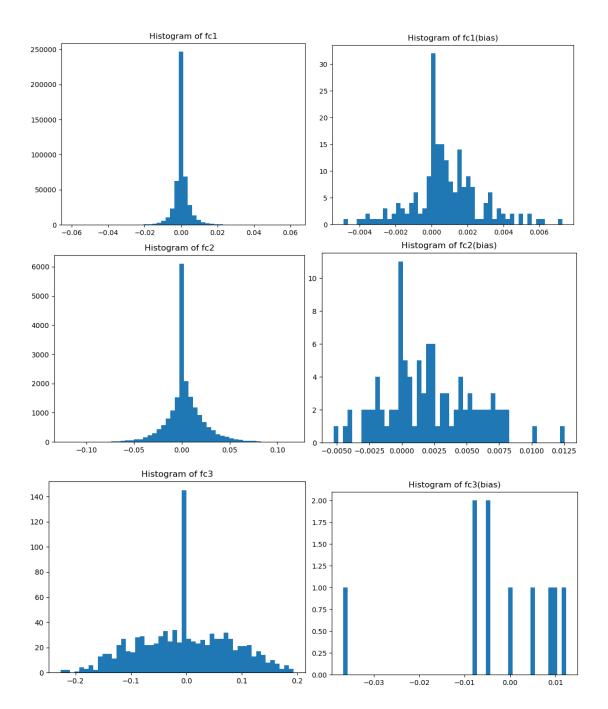
- -> (channels=20, filter size=(3x3), stride=1)
- -> FCN(nodes=200) -> FCN(nodes=100) -> FCN(nodes=10)

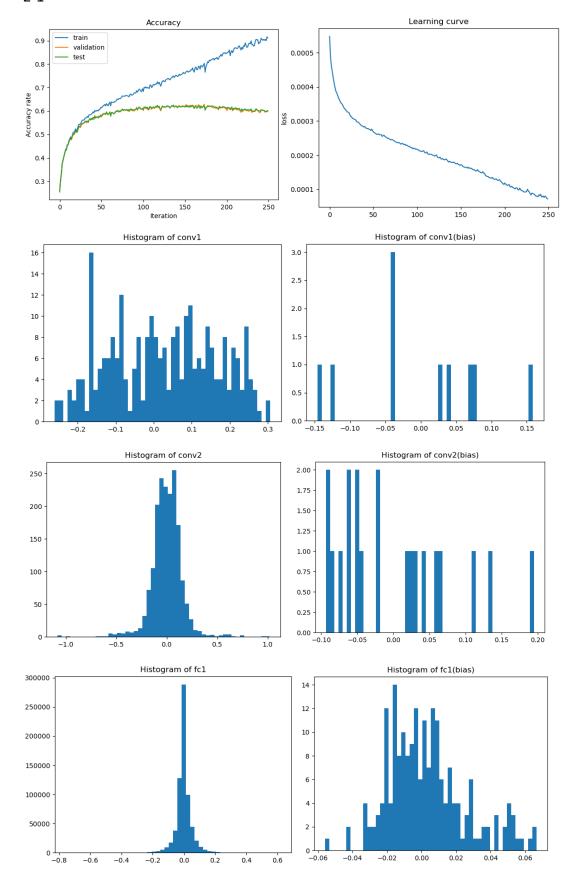
The stride size and filter size are also hyperparameters, like number of nodes in FCN, so it's not easy to tell the difference, but obviously, both of them affect the size of the output images.

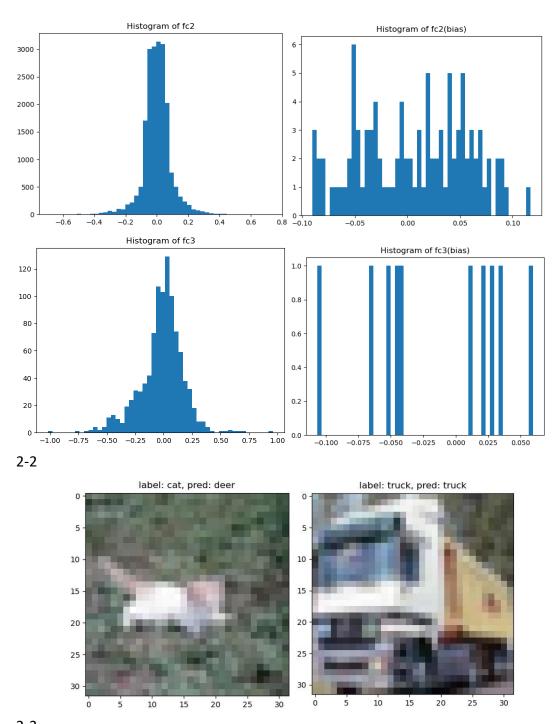
10 -



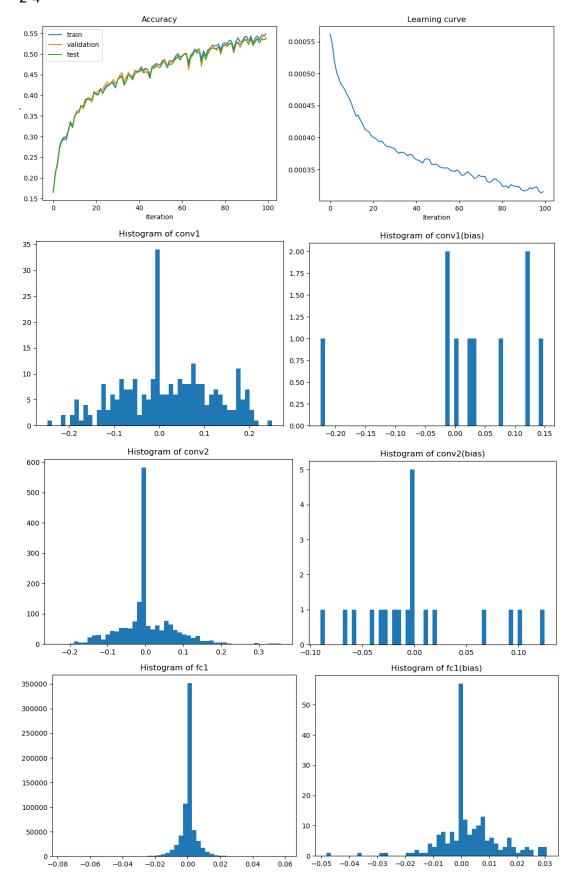


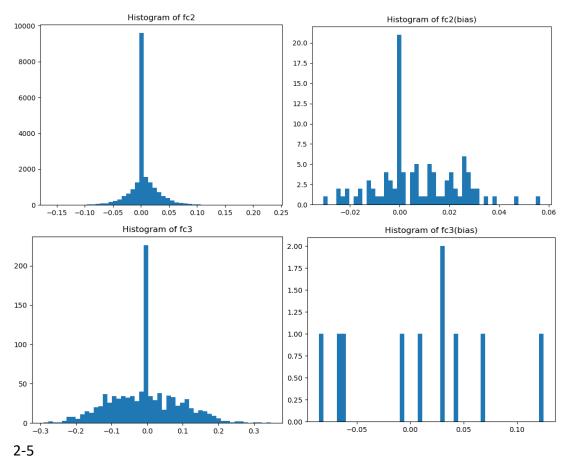






2-3
The results can't be drawn since the color channel has been changed.





I adjust the values of all pixels from 0-255 to 0-1, so the variation in inputs won't be to steep.