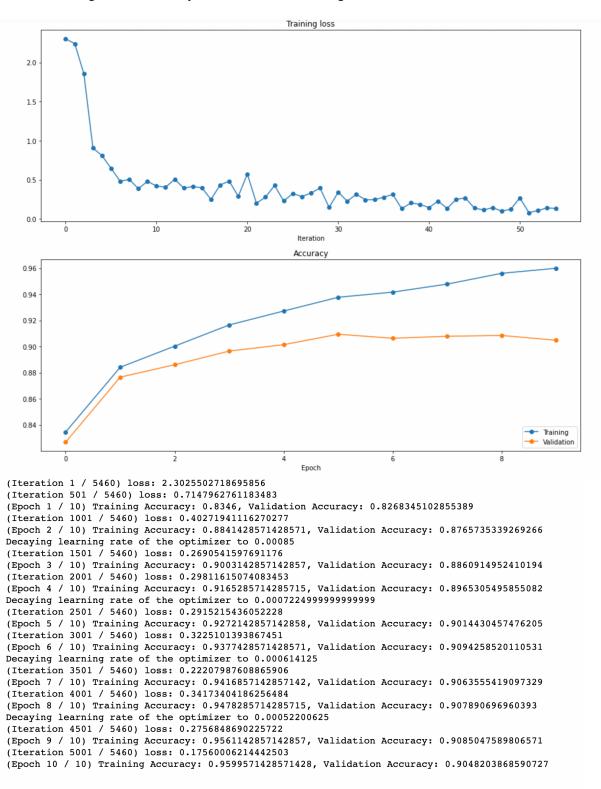
Problem 2

Training loss / accuracy curves for CNN training



Run the code below to generate the training plots.

2. Visualization of convolutional filters

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3. Answers to inline questions about convolutional filters

There are 16 filters and each filter on one row has three channels for red, green and blue. I see the filters with different colors, some grids have dark color and some grids have bright color. The dark color shows a small weight and the light color shows a large weight in the filters. However, the patterns that the filters learn are very general so that it may be used to detect the shapes and edge in images, and it can be applied for later layers to learn in more details about specific objects. It is reasonable since they are filters from the first convolutional layer and at a very early stage of model training.