coding_hw1_report.md

#Homework 1

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- 1. Splitting:
 - Splitting has to be done classwise rather than randomly into 50-25-25 due to the idea of preserving the histogram of each set of data such that it matches the original.
 - o There is a need to preserve the ratio or frequency of the characteristics.
 - Another way is to split such that there is no spacial bias.

Report

- Randomization of data is done while running the code by shuffling the order of the images in each class
- Code:

- list of accuracies for each class: [0.9705882352941176, 0.9852941176470589,
 - 0.9911764705882353, 0.9794117647058823, 0.9882352941176471, 0.9852941176470589, 0.9970588235294118, 0.9852941176470589, 0.9970588235294118, 0.9852941176470589, 0.9970588235294118, 0.9852941176470589, 0.9852941176470589, 0.9852941176470589, 0.9852941176470589, 0.9852941176470589, 0.9852941176470589, 0.9941176470588236,
 - 0.9823529411764705]
- From here it can be seen that in each classifier there are a few datapoints classified wrongly. This is most likely due to the image of the flower looking very similar to another class of flowers.

http://localhost:6419/