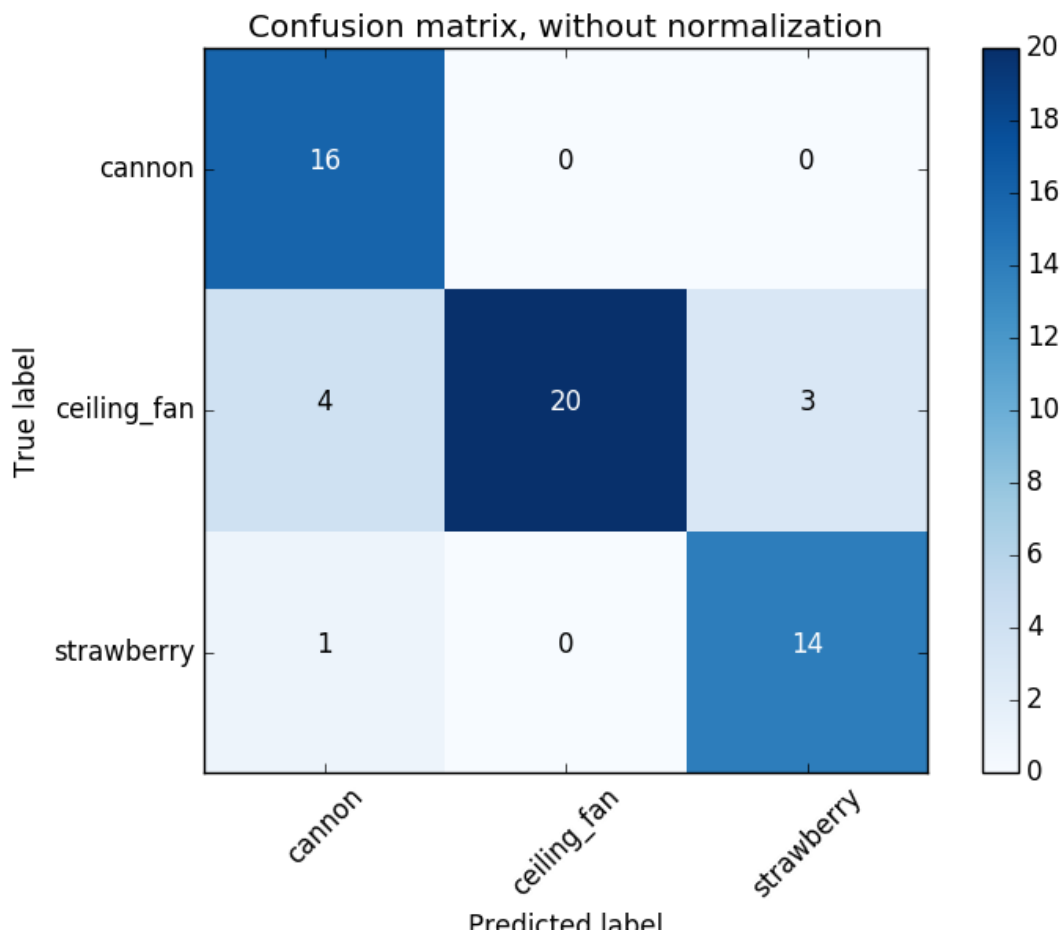
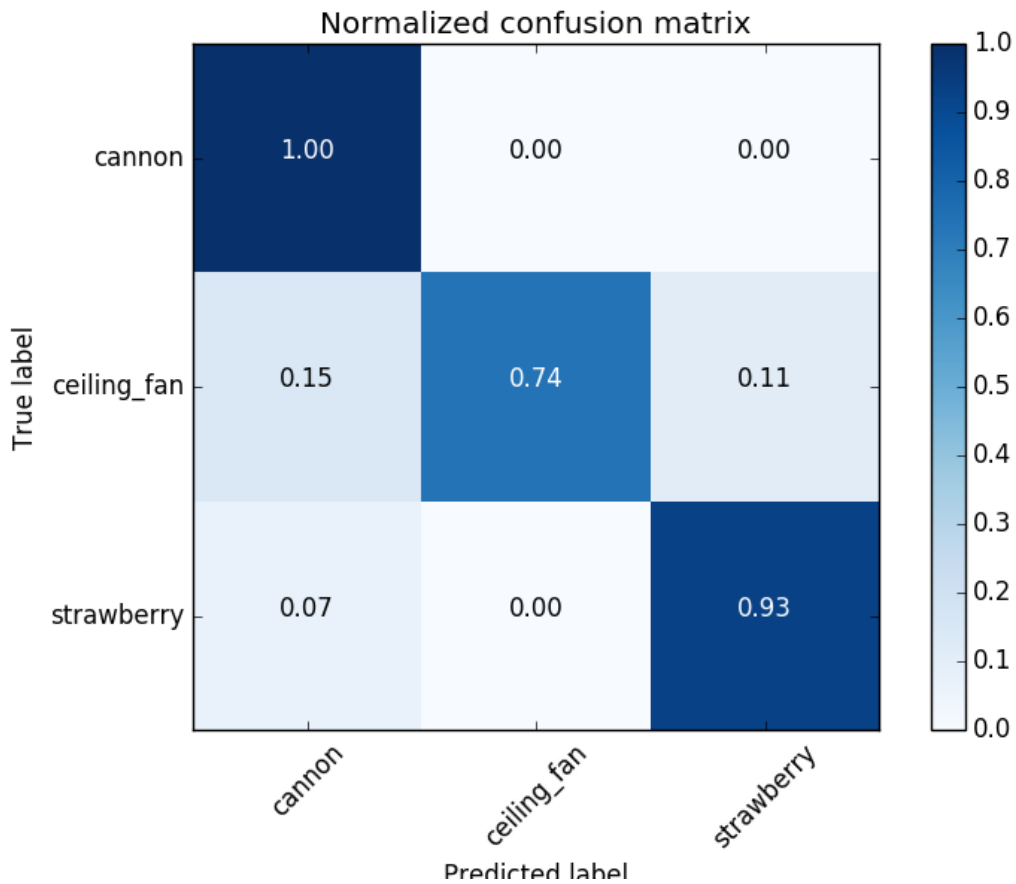


Conclusions obtained:

- It has been observed on increasing the number of clusters the accuracy of a classifier can be increased upto a limit and if we further increase the number of clusters the accuracy decreases. The limit depends on training data.
- It has been observed on **varying the size of the training dataset**
 - Increasing the size of the training dataset with images that define a particular object in diverse conditions like shape, color, light exposure increases the accuracy of the classifier significantly.
- The confusion matrix obtained when **half** of the images of
 - **Cannon**
 - **Ceiling_fan**
 - **Strawberry**





- **Accuracy obtained: 86.21%**
- This Accuracy can be increased as follows:
 - Identifying the main features from the training data that's going to be used mostly to diversify the test objects.
 - Supervised learning of creating training dataset was very useful rather than randomized collection.