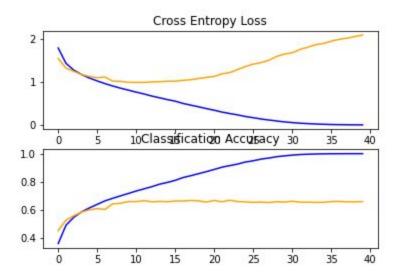
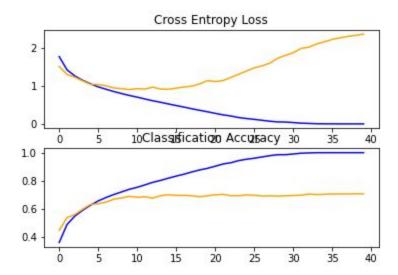
#### VGG Block 1

```
In [4]: runfile('C:/Users/Conspiracing/Downloads/School/EE104/Project 4/Option 4 Part 1.py', wdir='C:/Users/Conspiracing/Downloads/School/
EE104/Project 4')
Epochs = 40
> 65.830
```

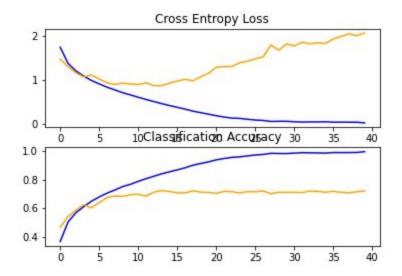


#### VGG Block 2

```
In [5]: runfile('C:/Users/Conspiracing/Downloads/School/EE104/Project 4/Option 4 Part 1.py', wdir='C:/Users/Conspiracing/Downloads/School/EE104/Project 4')
Epochs = 40
> 70.820
```



In [6]: runfile('C:/Users/Conspiracing/Downloads/School/EE104/Project 4/Option 4 Part 1.py', wdir='C:/Users/Conspiracing/Downloads/School/
EE104/Project 4')
Epochs = 40
> 72.150



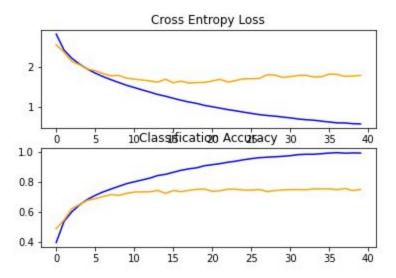
### **Dropout Regularization**

In [2]: runfile('C:/Users/Conspiracing/Downloads/School/
EE104/Project 4/Option 4 Part 1.py', wdir='C:/Users/
Conspiracing/Downloads/School/EE104/Project 4')
Epochs = 40

```
> 79.870
```

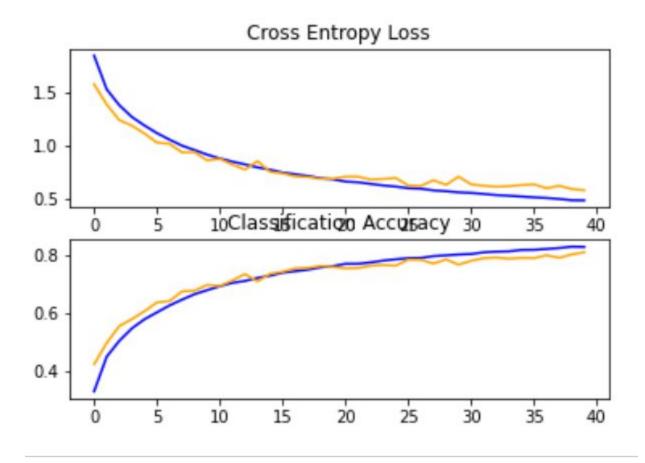
### Weight Decay

```
In [2]: runfile('C:/Users/Conspiracing/Downloads/School/
EE104/Project 4/Option 4 Part 1.py', wdir='C:/Users/
Conspiracing/Downloads/School/EE104/Project 4')
Reloaded modules: tmp3upj7hds
Epochs = 40
> 75.150
```



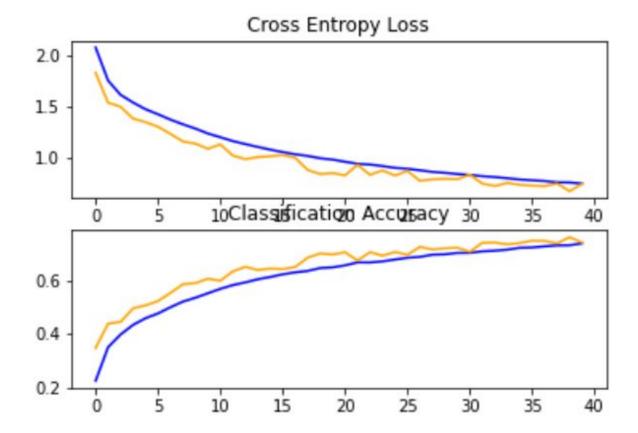
## **Data Augmentation**

```
In [3]: runfile('C:/Users/Conspiracing/Downloads/School/
EE104/Project 4/Option 4 Part 1 (Ahmad) (Data
Augmentation.py', wdir='C:/Users/Conspiracing/Downloads/
School/EE104/Project 4')
Epochs = 40
> 81.180
```



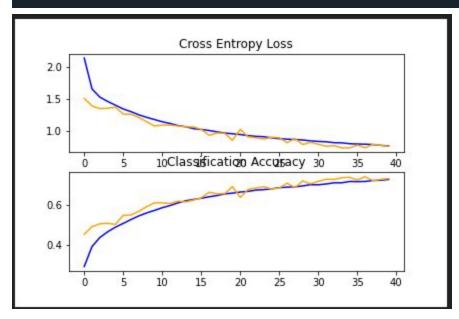
# Dropout and Data Augmentation

```
In [11]: runfile('C:/Users/Conspiracing/Downloads/School/
EE104/Project 4/Option 4 Part 1 (Ahmad) (Dropout and Data
Augmentation).py', wdir='C:/Users/Conspiracing/Downloads/
School/EE104/Project 4')
Epochs = 40
> 74.100
```



### Dropout and Data Augmentation and Batch Normalization

```
In [2]: runfile('C:/Users/Paul/.spyder-py3/EE 104/EE 104 Hws/untitled0.py', wdir='C:/Users/
Paul/.spyder-py3/EE 104/EE 104 Hws')
Reloaded modules: tmp0pkjo4_p
Epochs = 40
> 73.630
```



#### **Final Model Prediction**

```
In [5]: runfile('C:/Users/Conspiracing/Downloads/School/
EE104/Project 4/Option 4 Part 1 (Ahmad) (Save Final
Model).py', wdir='C:/Users/Conspiracing/Downloads/School/
EE104/Project 4')
Epochs = 70
In [6]: runfile('C:/Users/Conspiracing/Downloads/School/
EE104/Project 4/Option 4 Part 1 (Ahmad) (Final Model).py',
wdir='C:/Users/Conspiracing/Downloads/School/EE104/Project
4')
> 74.990
```