機器學習-作業三

609410162 彭郁翔

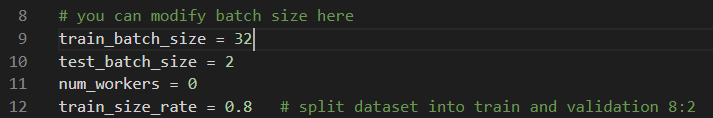
作業要求-1:

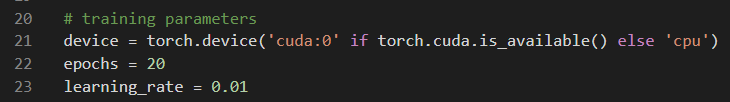
* 調整epoch、batch size、learning rate

**Epoch:20**

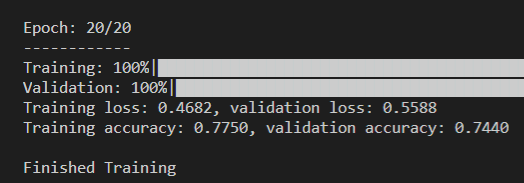
**Batch size:32**

**Learning rate:0.01**

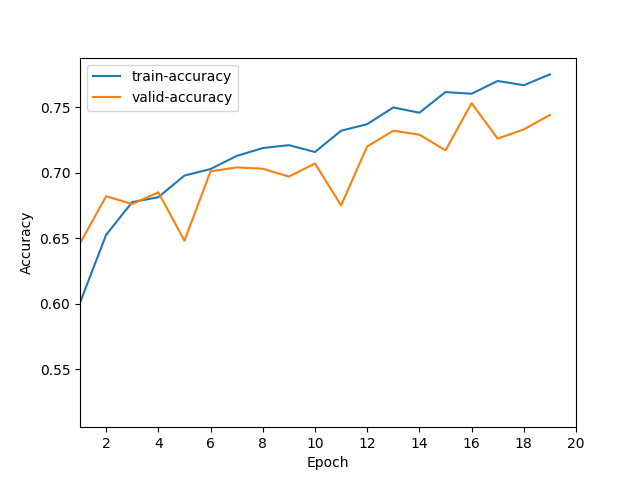
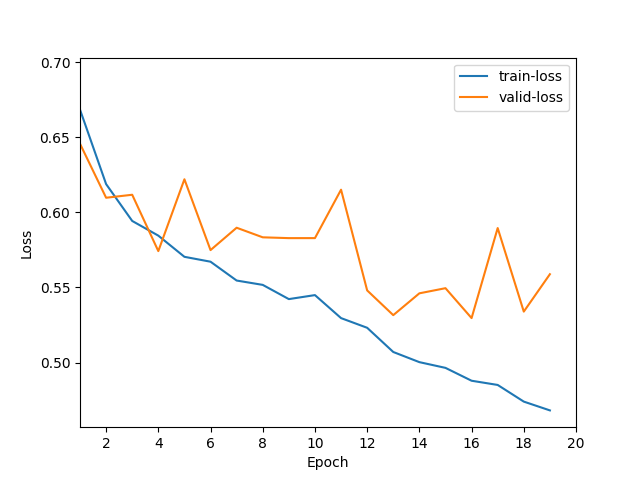




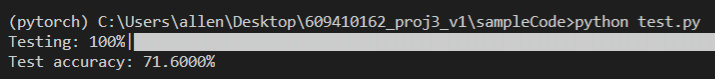
訓練後結果:



觀察並說明參數調整對損失函數及準確率的變化:



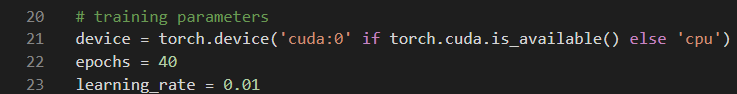
觀察在測試集上的結果:



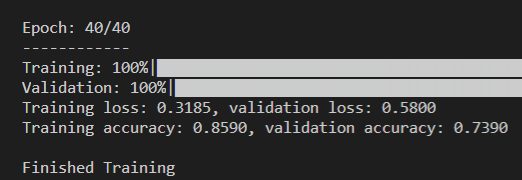
**Epoch:40**

**Batch size:32**

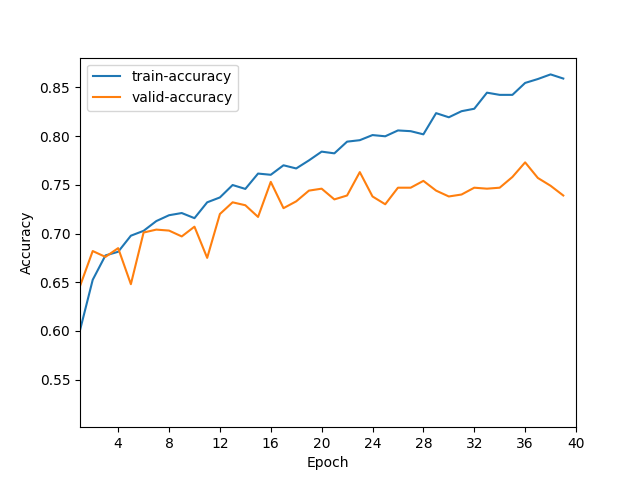
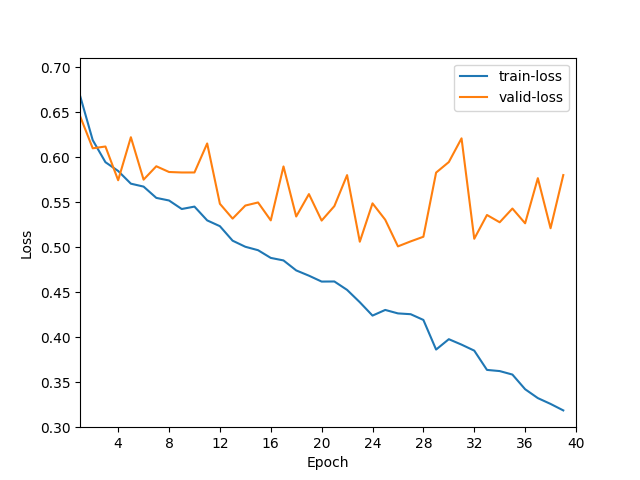
**Learning rate:0.01**



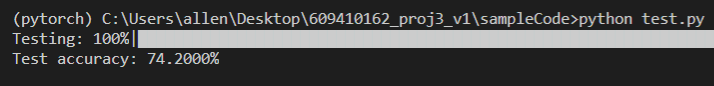
訓練後的結果:



觀察並說明參數調整對損失函數及準確率的變化:



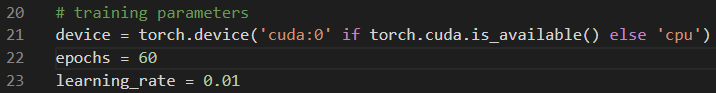
觀察在測試集上的結果:



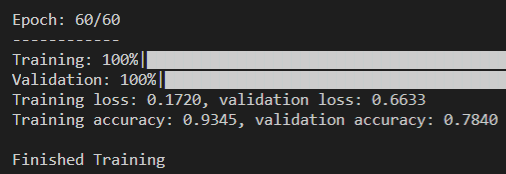
**Epoch:60**

**Batch size:32**

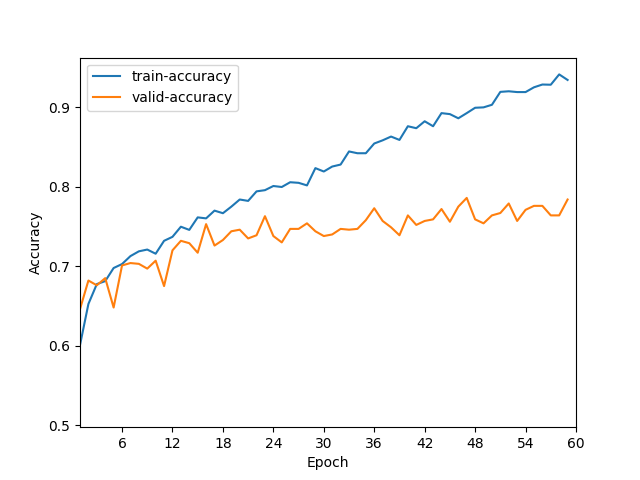
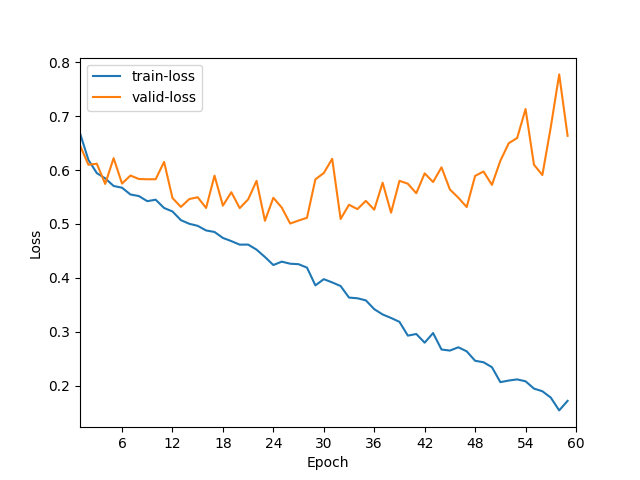
**Learning rate:0.01**



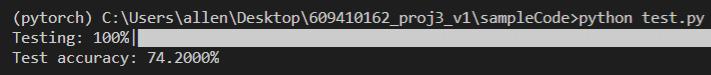
訓練後的結果:



觀察並說明參數調整對損失函數及準確率的變化:



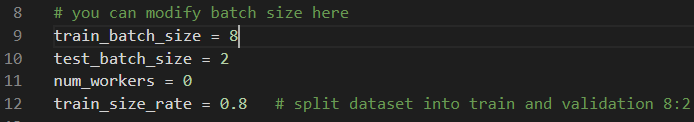
觀察在測試集上的結果:



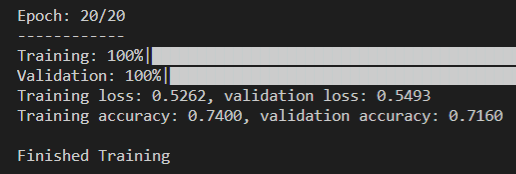
**Epoch:20**

**Batch size:8**

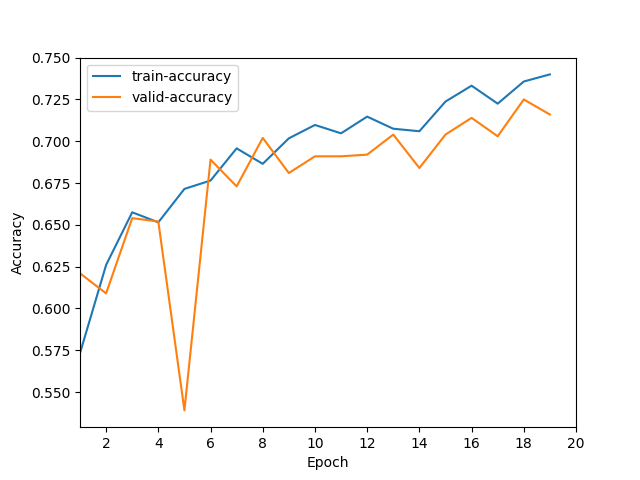
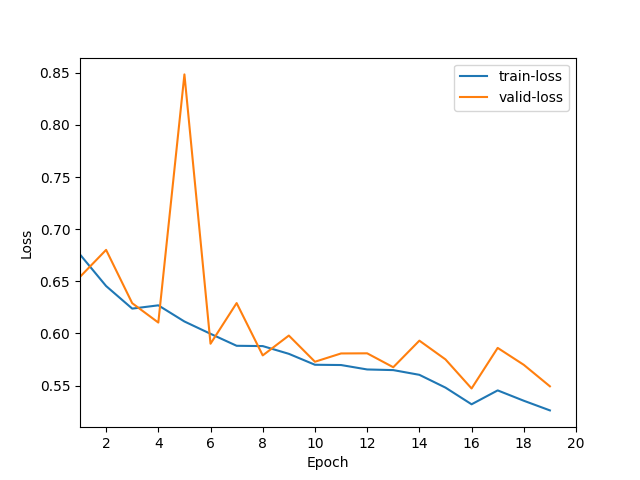
**Learning rate:0.01**



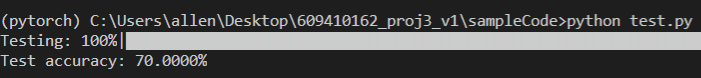
訓練後的結果:



觀察並說明參數調整對損失函數及準確率的變化:



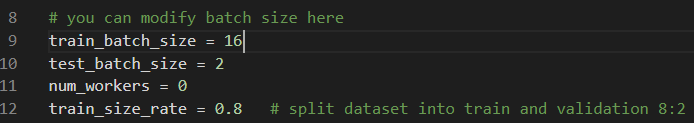
觀察在測試集上的結果:



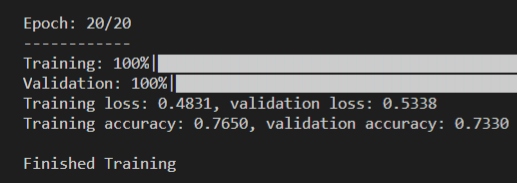
**Epoch:20**

**Batch size:16**

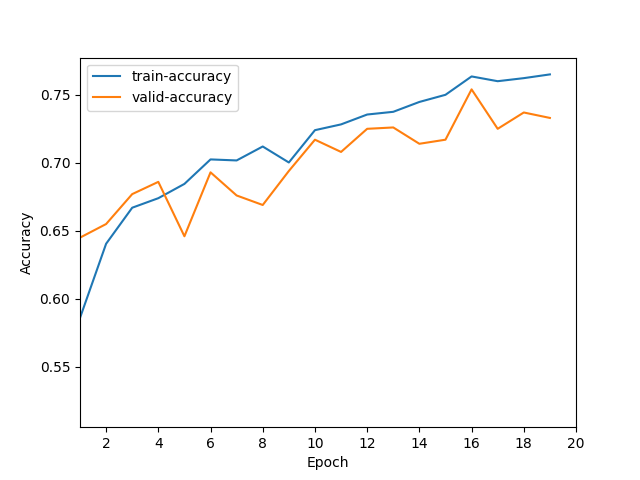
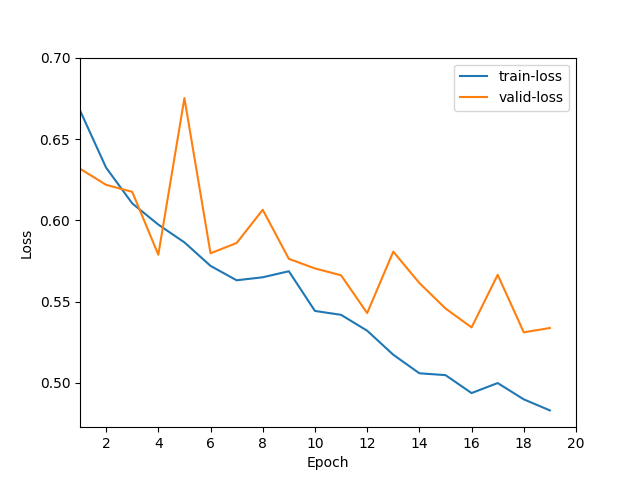
**Learning rate:0.01**



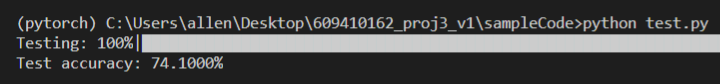
訓練後的結果:



觀察並說明參數調整對損失函數及準確率的變化:



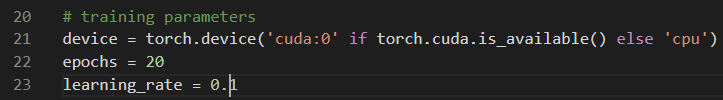
觀察在測試集上的結果:



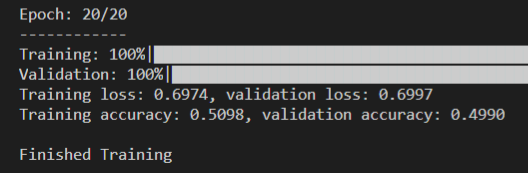
**Epoch:20**

**Batch size:32**

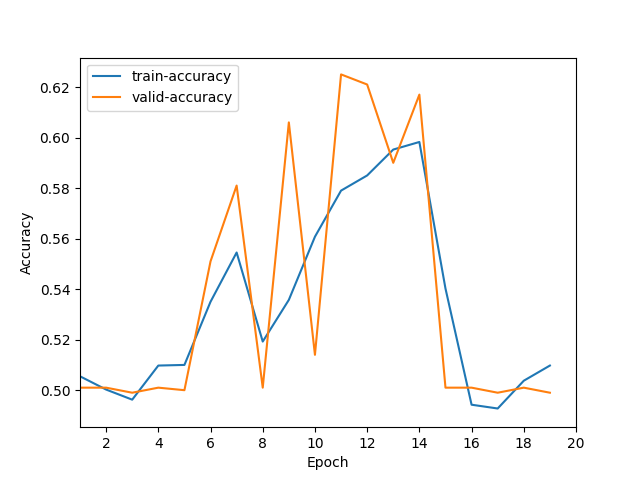
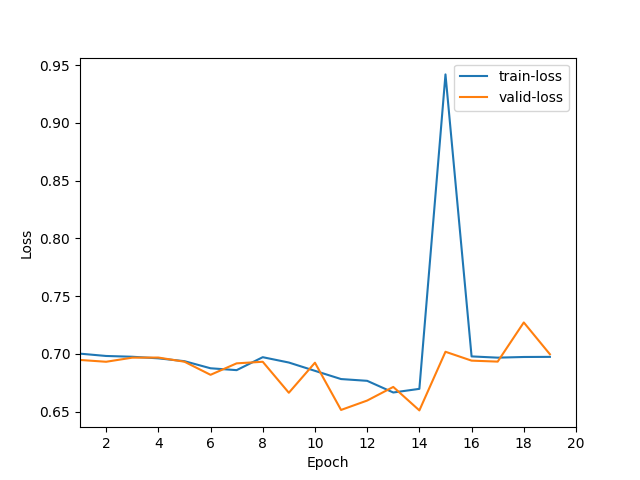
**Learning rate:0.1**



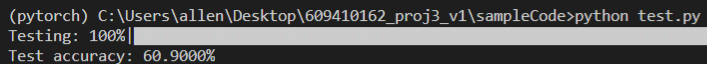
訓練後的結果:



觀察並說明參數調整對損失函數及準確率的變化:



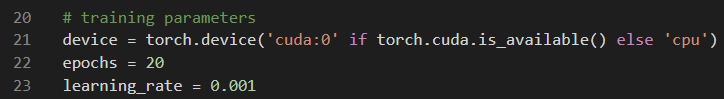
觀察在測試集上的結果:



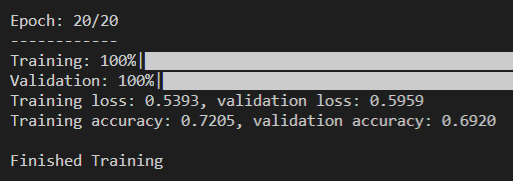
**Epoch:20**

**Batch size:32**

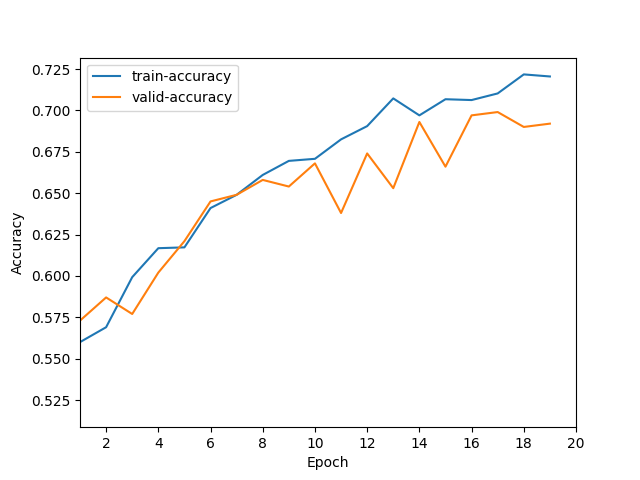
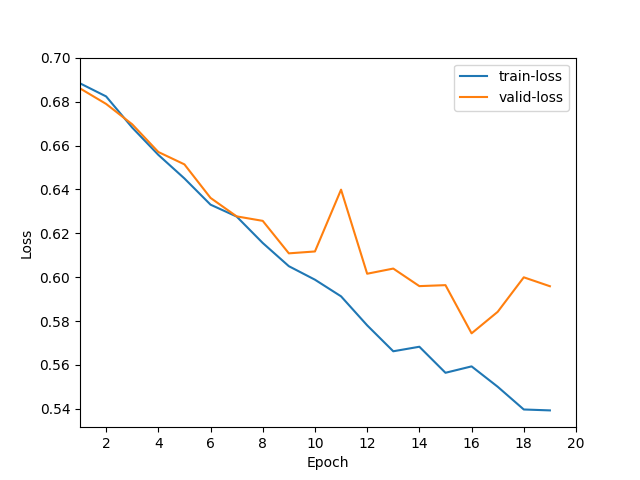
**Learning rate:0.001**



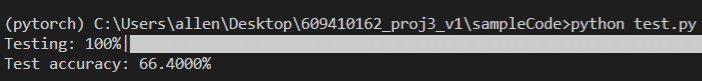
訓練後的結果:



觀察並說明參數調整對損失函數及準確率的變化:



觀察在測試集上的結果:



作業要求-2

* 修改提供的CNN model(修改MyCNN model)

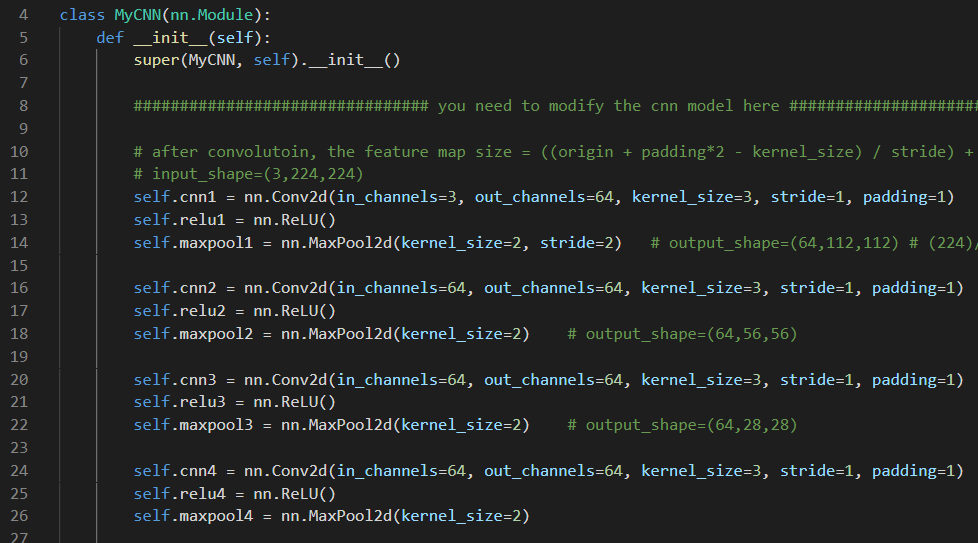
**參數調整:**

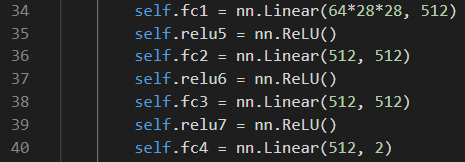
**Epoch:60**

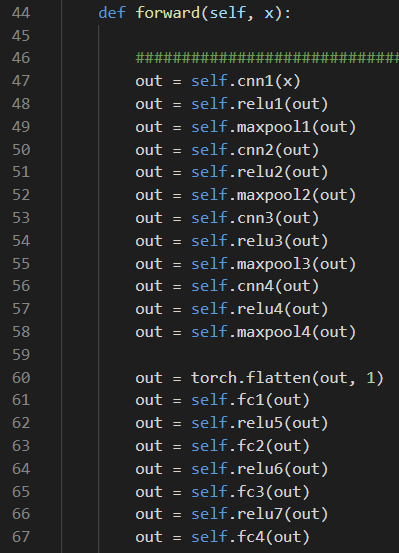
**Batch size:32**

**Learning rate:0.01**

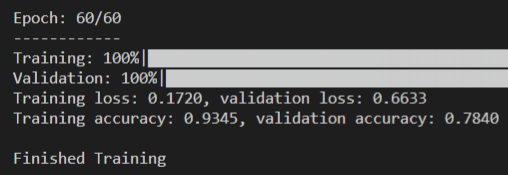
增加一層convolution layer。



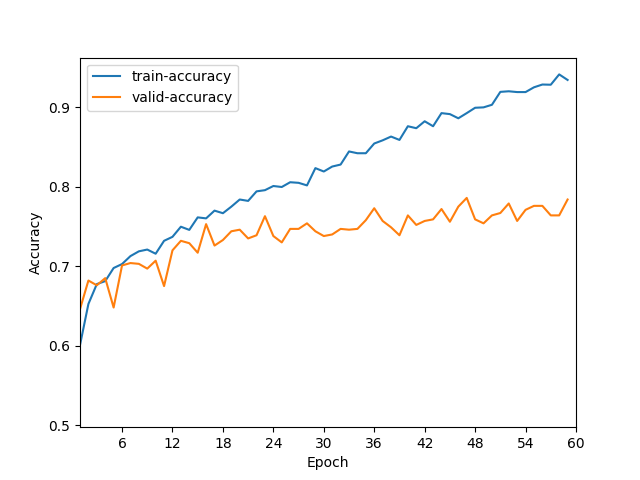
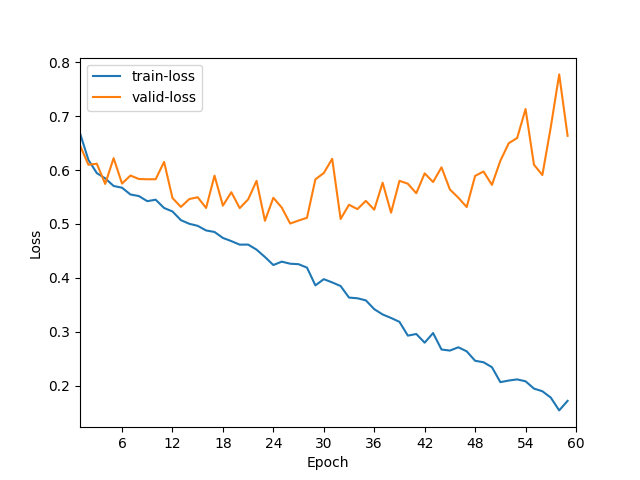




訓練後的結果:



觀察並說明參數調整對損失函數及準確率的變化:



觀察在測試集上的結果:

