Answers for Task 5.1P

Relevant models:

- CIFAR_Model: Model trained on the CIFAR10 dataset on the local device.
- Food_Model: Model trained on the food dataset from task 4.1P on the local device.
- GPU_Model: Model trained on the CIFAR10 dataset using GPUs using google collab.

Section 2:

 The CNN CIFAR_Model appears to yield better results when using the finetuned version of the model Compared to using the Food_Model trained from scratch for the **food dataset**.
 The accuracy for each of the 3 food items is higher for the fine-tuned CIFAR_Model and the confusion matrix also are observed to be better as well.

Section 3:

• When adding the dropout method into the network for CIFAR_Model and using it to predict the CIFAR dataset, the accuracy seems to have reduced when using thew dropout method.

Section 4:

Accuracy of GPU_Model used for predicting the CIFAR10 dataset, is observed to be the same
as the CIFAR_Model but I did observe it to be significantly faster than CIFAR_Model in terms
of processing time.

Accuracy Value:

- CIFAR_Model on CIFAR Dataset: 59%
- Fine tuned CIFAR_Model on Food Dataset: 71%
- Food Model on Food Dataset: 67%
- CIFAR_model with dropout on CIFAR dataset: 52%
- GPU_Model on CIFAR dataset: 59%

GPU:

