#### Task 5.1C Answer sheet

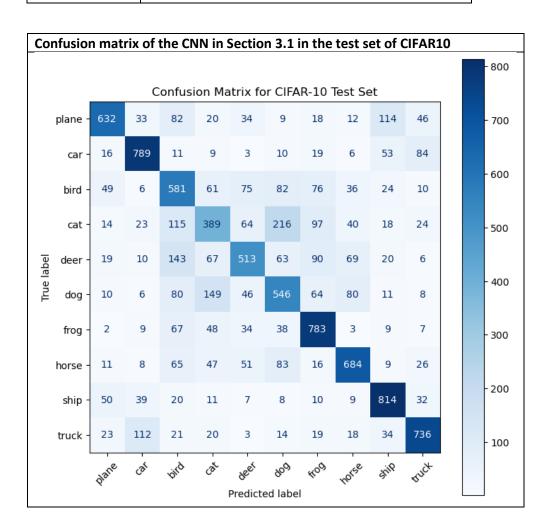
Fill in the required results (numerical data, images).

#### Notes:

- Examples (if any) need to be replaced by your results.
- Missing any required results will result in a re-submission.

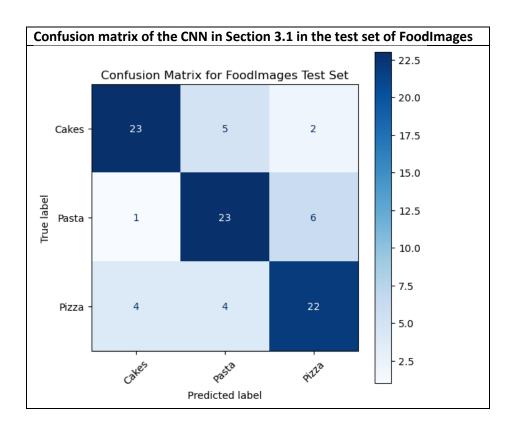
#### 1. Image recognition in CIFAR10

	Recognition accuracy of the CNN in Section 3.1 in the test set of CIFAR10					
Plane	Accuracy of plane : 63 %					
Car	Accuracy of car: 78 %					
Bird	Accuracy of bird: 58 %					
Cat	Accuracy of cat: 38 %					
Deer	Accuracy of deer: 51 %					
Dog	Accuracy of dog: 54 %					
Frog	Accuracy of frog: 78 %					
Horse	Accuracy of horse : 68 %					
Ship	Accuracy of ship: 81 %					
Truck	Accuracy of truck: 73 %					
Overall	Accuracy of the network on the 10000 test images:					
	64 %					



## 2. Image recognition in FoodImages with training-from-scratch setting

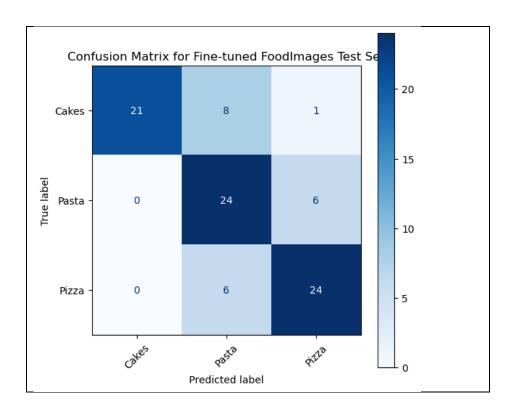
	Recognition accuracy of the CNN in Section 3.1 in the test set of FoodImages				
Cakes	Accuracy of Cakes : 76 %				
Pasta	Accuracy of Pasta: 76 %				
Pizza	Accuracy of Pizza: 73 %				
Overall	Accuracy of FoodNet on the test images: 75.56 %				



## 3. Image recognition in FoodImages with fine-tuning

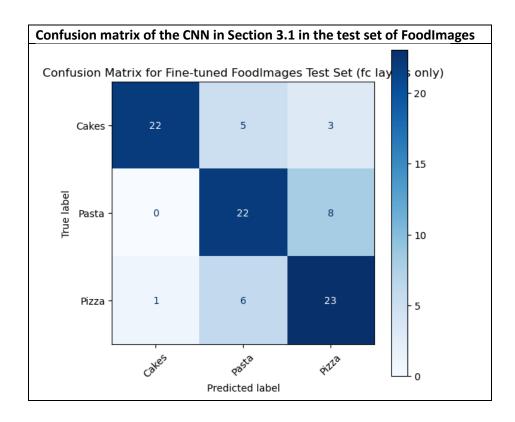
	Recognition accuracy of the CNN in Section 3.1 in the test set of FoodImages						
Cakes	Accuracy of Cakes : 70 %						
Pasta	Accuracy of Pasta: 80 %						
Pizza	Accuracy of Pizza: 80 %						
Overall	Accuracy of fine-tuned model on FoodImages test images: 76.67 %						

Confusion matrix of the CNN in Section 3.1 in the test set of FoodImages



## 4. Image recognition in FoodImages with customised training

	Recognition accuracy of the CNN in Section 3.1 in					
	the test set of FoodImages					
Cakes	Accuracy of Cakes: 73 %					
Pasta	Accuracy of Pasta: 73 %					
Pizza	Accuracy of Pizza: 76 %					
Overall	Accuracy of fine-tuned model (fc layers only) on					
	FoodImages test images: 74.44 %					



## 5. Object detection in Aquarium

## a. Detection performance

	mAP@50	mAP@50-95	Training time (in minutes)	Testing time (in minutes)	Inference speed (frames-per- second)
FasterRCNN_ResNet50_FPN_Weights	0.698	0.357	14.59	0.16	6.73
			minutes	minutes	
FasterRCNN_MobileNet_V3_Large_320	0.410	0.177	1.88	0.05	21.37
_FPN_Weights			minutes	minutes	

# b. Visual results of FasterRCNN with MobileNet\_V3\_Large\_320\_FPN backbone

