Some common errors in the code

- · Need to use same normalization for testing and training
- Forget to implement testing/prediction function
- Forget to switch back to model.train() mode
- Forget to move model to target device
- Forget to move data to target device in testing mode function
- Training epoch not finished. The 'break' will jump out off the current training epoch

• To get training accuracy, there is no need to separately go over/inference the training dataset again. You can get the correct or wrong result during each batch of training

```
# train the model
def train():
    print("Loop\tTrain Loss\tTrain Acc %\tTest Acc %")
    for epoch in range(max_epochs):
        loss = 0
        for step, (input, target) in enumerate(train_loader):
            model.train()  # set the model in training mode
            prediction = model(input)
            loss = loss_func(prediction, target)

            optimizer.zero_grad()
            loss.backward()
            optimizer.step()
            train acc = total_accuracy(train_loader)
            test_acc = total_accuracy(test_loader)
            print("{}/{}\t{:.6f}\t{:.6f}\t{:.6f}\.format(epoch + 1, max_epochs, loss.item(), train_acc, test_acc
            save_model(model, test_acc)
```

Model saved without filename extension. (e.g., ./model/cifar model) we need .pt extension