S4 - Assignment QnA

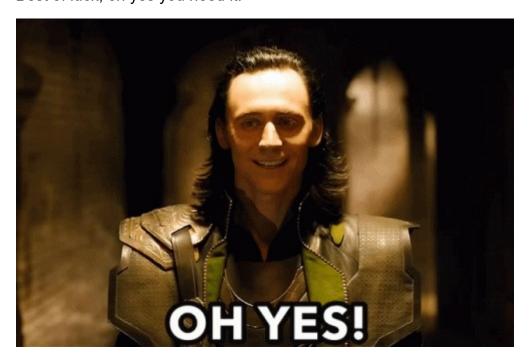|			
Due May 26 at 9:30pm	**Points** 100	**Questions** 10	
Available May 20 at 1:30am - May 26 at 9:30pm		**Time Limit** 90 Minutes	

Instructions

You are working on this file: **COLAB** ⬀ **(https://colab.research.google.com/drive /1oVt7T6tb90Y1EXvFaIWgm72emqZZPXi4?usp=sharing)**

You have 1.5 hour to solve this assignment, so before you attempt the assignment, **make a copy of this file, and try and fix as many things as required.** .

During the assignment you might need to train few models again, so make multiple copies of the model and keep it handy.
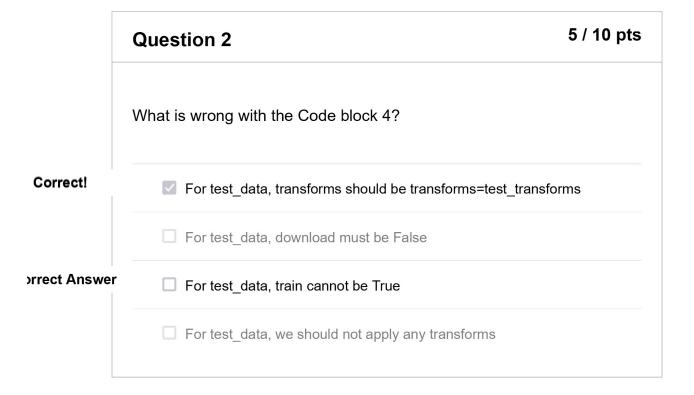
Best of luck, oh yes you need it!

Attempt History

	Attempt	**Time**	**Score**
LATEST	**Attempt 1**	10 minutes	80 out of 100

Score for this quiz: **80** out of 100

Submitted May 26 at 2:18am

This attempt took 10 minutes.

Question 1	**10 / 10 pts**

What is wrong with Code block 3?

Correct!

- ☑ In test_transforms, transforms.Normalize values are wrong

- ☐ In test_transforms, we forgot to add transforms.RandomApply

- ☐ Nothing is wrong

- ☐ In test_transforms, we forgot to add transforms.RandomRotation

- ☐ In train_transforms, transforms.Normalize values are wrong

Question 2	**5 / 10 pts**

What is wrong with the Code block 4?

Correct!

- ☑ For test_data, transforms should be transforms=test_transforms

- ☐ For test_data, download must be False

orrect Answer

- ☐ For test_data, train cannot be True

- ☐ For test_data, we should not apply any transforms

Question 3   **10 / 10 pts**

What is wrong with Code block 5?

☐ Batch size is too high

☐ test_loader must be written after train_loader to make sure we do not leak any data to trainloader

Correct! ☑ Shuffle must be "True" and not "False"

Correct! ☑ test_loader must be provided with test_data and not train_data

Question 4   **5 / 5 pts**

Everytime we run Code Block 6, we'll see different set of images

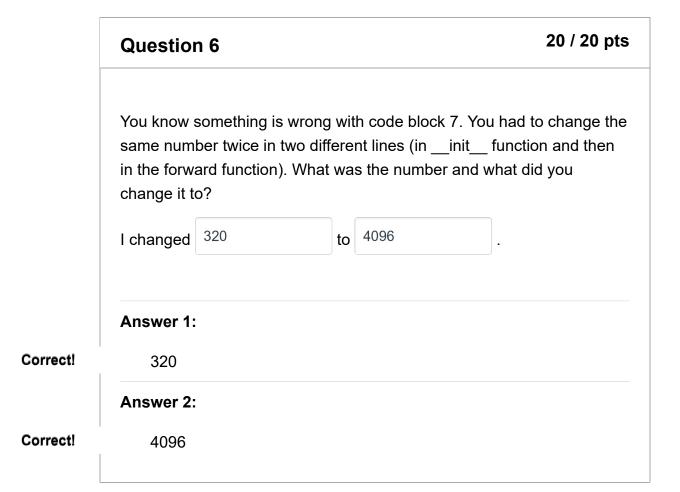**Correct!** ◉ True

○ False

Question 5   **5 / 5 pts**

train_loader is always giving us 12 images and 12 labels.

○ True

Correct!   ⦿ False

Question 6   **20 / 20 pts**

You know something is wrong with code block 7. You had to change the same number twice in two different lines (in __init__ function and then in the forward function). What was the number and what did you change it to?

I changed [320] to [4096] .

Answer 1:

Correct!   320

Answer 2:

Correct!   4096

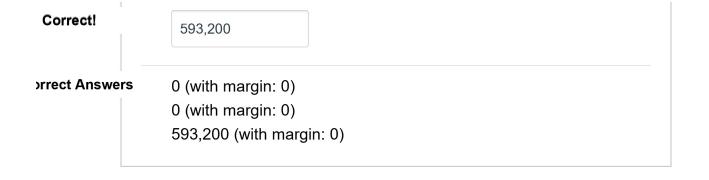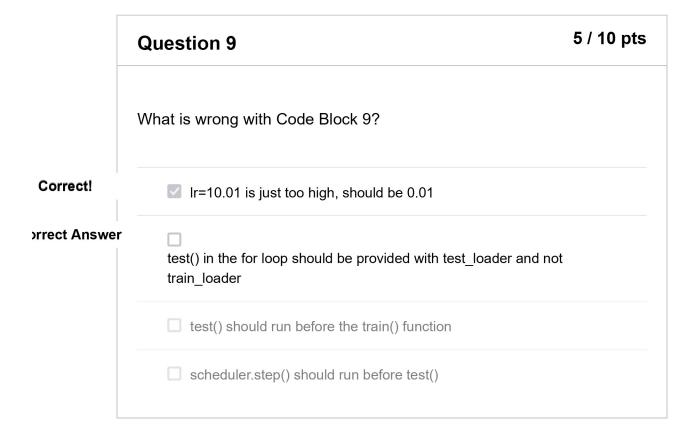## Question 7   **10 / 10 pts**

If this code is used on the model

```
!pip install torchsummary
from torchsummary import summary
use_cuda = torch.cuda.is_available()
device = torch.device("cuda" if use_cuda else "cpu")
model = Net().to(device)
summary(model, input_size=(1, 28, 28))
```

What would be the total params for the correct model?

Correct!

> 593,200

orrect Answers

0 (with margin: 0)
0 (with margin: 0)
593,200 (with margin: 0)

Question 8

10 / 10 pts

If bias = False, is added to all Conv and FC layers, then total parameters would be

Correct!

> 592,660

orrect Answers

592,660 (with margin: 0)

Question 9

5 / 10 pts

What is wrong with Code Block 9?

Correct!

☑ lr=10.01 is just too high, should be 0.01

orrect Answer

☐ test() in the for loop should be provided with test_loader and not train_loader

☐ test() should run before the train() function

☐ scheduler.step() should run before test()

Question 10   **0 / 10 pts**

The Receptive Field of the fixed network is:

ou Answered

> 28

orrect Answers   16 (with margin: 0)

Quiz Score: **80** out of 100