Part 5 - CNN on Double MNIST

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Here, we have a double mnist dataset where all the images have 2 digits in them and we try to implement a cnn and see if we can correctly predict the digits.

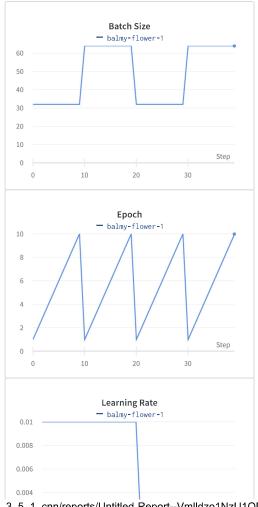
The dataset looks like:

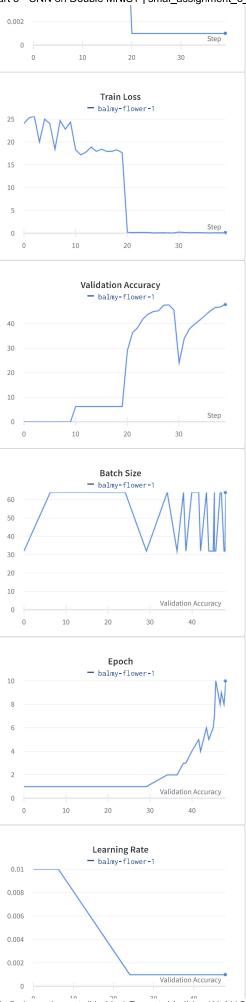


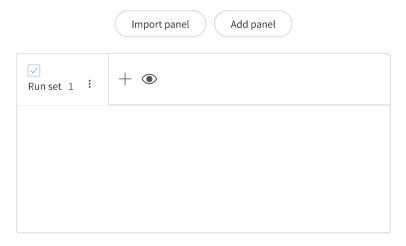
The hyperparameter tunning is done on the following parameters:

```
config.learning_rate = [0.01, 0.001]
config.batch_size = [32, 64]
config.num_epochs = 10
```

The results look like:







The best model come out to be:

```
Batch Size 64
Epoch 10
Learning Rate 0.001
Train Loss 0.14414
Validation Accuracy 47.91875
```