SimpleNN

```
class SimpleNN(nn.Module):
    def __init__(self):
        super(SimpleNN, self).__init__()
        self.conv_stack = nn.Sequential(
            nn.Conv2d(3, 64, kernel_size=3, stride=1, padding=
            nn.ReLU(),
            nn.MaxPool2d(kernel_size=2, stride=2, padding=0)
        )
        self.fc_stack = nn.Sequential(
            nn.Linear(64 * 112 * 112, 1000),
            nn.ReLU(),
            nn.Linear(1000, 2)
        )

    def forward(self, x):
        x = self.conv_stack(x)
        x = torch.flatten(x, 1)
        logits = self.fc_stack(x)
        return logits
```

```
Epoch 1
-------------------------------
/local-pool-83/cheng-yao/.local/lib/python3.10/site-packages/
  Variable._execution_engine.run_backward(  # Calls into the 
loss: 0.767739  [    0/  100]
Parameters uploaded successfully.
Test Error:
 Accuracy: 50.0%, Avg loss: 113.175430

Epoch 2
-------------------------------
loss: 94.192284  [    0/  100]
 Parameters uploaded successfully.
Test Error:
```

```
 Accuracy: 50.0%, Avg loss: 220.910248

Epoch 3
-------------------------------
loss: 225.438126  [    0/  100]
Parameters uploaded successfully.
fail
Test Error:
 Accuracy: 50.0%, Avg loss: 80.860474

Epoch 4
-------------------------------
loss: 84.752228  [    0/  100]
Parameters uploaded successfully.
fail
Test Error:
 Accuracy: 50.0%, Avg loss: 5.507360

Epoch 5
-------------------------------
loss: 4.956311  [    0/  100]
Parameters uploaded successfully.
fail
Test Error:
 Accuracy: 50.0%, Avg loss: 23.746450

Epoch 6
-------------------------------
loss: 21.908087  [    0/  100]
Parameters uploaded successfully.
fail
Test Error:
 Accuracy: 50.0%, Avg loss: 6.155574

Epoch 7
-------------------------------
loss: 4.776606  [    0/  100]
Parameters uploaded successfully.
```

```
fail
Test Error:
 Accuracy: 50.0%, Avg loss: 13.720282

Epoch 8
-------------------------------
loss: 14.371814  [    0/  100]
Parameters uploaded successfully.
fail
Test Error:
 Accuracy: 50.0%, Avg loss: 6.857956

Epoch 9
-------------------------------
loss: 7.988214  [    0/  100]
Parameters uploaded successfully.
fail
Test Error:
 Accuracy: 50.0%, Avg loss: 7.196001

Epoch 10
-------------------------------
loss: 6.102106  [    0/  100]
Parameters uploaded successfully.
fail
Test Error:
 Accuracy: 50.0%, Avg loss: 5.128838

Done
```