Simple Recipe for Neural Network

Define Class

```
class Network(nn.Module):
       def __init__(self):
              super().__init__()
              #define all the required layers
       def forward(self,feature):
              #define all the function applied on the layers and return output
Define all the required statistics
#move model to GPU
device= torch.device("cuda" if torch.cuda.is_available() else "cpu")
model = Network(**kwargs).to(device)
optimizer=torch.optim.Adam(model.parameters(),lr=3e-5)
criterion=nn.MSEloss()
Loading data
#Transform train and test data to tensor
#Load into Dataloader
Training Model
Set number of epochs
for epoch in epochs:
       loss=0
       for batch,y in train_loader:
              #change batch shape appropriately
              optimizer.zero_grad()
              output=model(batch)
              train_loss=criterion(output,y)
              train loss.backward()
              optimizer.step()
              loss=train_loss.item()
Testing Model
with torch.no_grad():
       for batch,y in test_loader:
              #change dimension of batch
              output=model(batch)
              #check result
```