

```
class Model(nn.Module):  
    def __init__(self):  
        super(Model, self).__init__()  
        self.linear1 = nn.Linear(135, 256)  
        self.linear2 = nn.Linear(256, 128)  
        self.linear3 = nn.Linear(128, 64)  
        self.linear4 = nn.Linear(64, 32)  
        self.linear5 = nn.Linear(32, 4)  
  
    def forward(self, x):  
        x = x.view(-1, 135)  
        x = F.relu(self.linear1(x))  
        x = F.relu(self.linear2(x))  
        x = F.relu(self.linear3(x))  
        x = F.relu(self.linear4(x))  
        return self.linear5(x)  
  
model = Model()
```

✓
0秒

```
[79] class Model(nn.Module):
    def __init__(self):
        super(Model, self).__init__()
        self.linear1 = nn.Linear(135, 256)
        self.linear2 = nn.Linear(256, 128)
        self.linear3 = nn.Linear(128, 64)
        self.linear4 = nn.Linear(64, 32)
        self.linear5 = nn.Linear(32, 4)

    def forward(self, x):
        x = x.view(-1, 135)
        x = F.relu(self.linear1(x))
        x = F.relu(self.linear2(x))
        x = F.relu(self.linear3(x))
        x = F.relu(self.linear4(x))
        return self.linear5(x)

model = Model()
```

✓
0秒

```
[80] criterion = nn.CrossEntropyLoss()
optimizer = torch.optim.Adam(model.parameters(), lr=0.001)
scheduler = torch.optim.lr_scheduler.StepLR(optimizer, step_size=5, gamma=0.5)
```

Epoch 48, training accuracy: 85.375%

Finished Training

Finished Testing

```
[49, 10] loss: 0.036
[49, 20] loss: 0.037
[49, 30] loss: 0.038
[49, 40] loss: 0.033
[49, 50] loss: 0.040
[49, 60] loss: 0.039
```

Epoch 49, training accuracy: 85.475%

Finished Training

Finished Testing

```
[50, 10] loss: 0.035
[50, 20] loss: 0.037
[50, 30] loss: 0.037
[50, 40] loss: 0.038
[50, 50] loss: 0.040
[50, 60] loss: 0.038
```

Epoch 50, training accuracy: 85.400%

Finished Training

Finished Testing

```
class Model(nn.Module):

    def __init__(self):
        super(Model, self).__init__()
        self.linear1 = nn.Linear(135, 256)
        self.bn1 = nn.BatchNorm1d(256)
        self.dropout1 = nn.Dropout(0.5)
        self.linear2 = nn.Linear(256, 128)
        self.bn2 = nn.BatchNorm1d(128)
        self.dropout2 = nn.Dropout(0.3)
        self.linear3 = nn.Linear(128, 64)
        self.bn3 = nn.BatchNorm1d(64)
        self.dropout3 = nn.Dropout(0.1)
        self.linear4 = nn.Linear(64, 32)
        self.bn4 = nn.BatchNorm1d(32)
        self.dropout4 = nn.Dropout(0.1)
        self.linear5 = nn.Linear(32, 4)

    def forward(self, x):
        x = x.view(-1, 135)
        x = self.dropout1(F.relu(self.bn1(self.linear1(x))))
        x = self.dropout2(F.relu(self.bn2(self.linear2(x))))
        x = self.dropout3(F.relu(self.bn3(self.linear3(x))))
        x = self.dropout4(F.relu(self.bn4(self.linear4(x))))
        return self.linear5(x)

model = Model()
```

```

✓ [91] class Model(nn.Module):
0秒
    def __init__(self):
        super(Model, self).__init__()
        self.linear1 = nn.Linear(135, 256)
        self.bn1 = nn.BatchNorm1d(256)
        self.dropout1 = nn.Dropout(0.5)
        self.linear2 = nn.Linear(256, 128)
        self.bn2 = nn.BatchNorm1d(128)
        self.dropout2 = nn.Dropout(0.3)
        self.linear3 = nn.Linear(128, 64)
        self.bn3 = nn.BatchNorm1d(64)
        self.dropout3 = nn.Dropout(0.1)
        self.linear4 = nn.Linear(64, 32)
        self.bn4 = nn.BatchNorm1d(32)
        self.dropout4 = nn.Dropout(0.1)
        self.linear5 = nn.Linear(32, 4)

    def forward(self, x):
        x = x.view(-1, 135)
        x = self.dropout1(F.relu(self.bn1(self.linear1(x))))
        x = self.dropout2(F.relu(self.bn2(self.linear2(x))))
        x = self.dropout3(F.relu(self.bn3(self.linear3(x))))
        x = self.dropout4(F.relu(self.bn4(self.linear4(x))))
        return self.linear5(x)

model = Model()

✓ [92] criterion = nn.CrossEntropyLoss()
0秒
optimizer = torch.optim.Adam(model.parameters(), lr=0.001)
scheduler = torch.optim.lr_scheduler.StepLR(optimizer, step_size=5, gamma=0.5)

```

Epoch 48, training accuracy: 91.525%

Finished Training

Finished Testing

[49, 10] loss: 0.021

[49, 20] loss: 0.025

[49, 30] loss: 0.023

[49, 40] loss: 0.024

[49, 50] loss: 0.020

[49, 60] loss: 0.024

Epoch 49, training accuracy: 91.550%

Finished Training

Finished Testing

[50, 10] loss: 0.021

[50, 20] loss: 0.024

[50, 30] loss: 0.024

[50, 40] loss: 0.024

[50, 50] loss: 0.024

[50, 60] loss: 0.019

Epoch 50, training accuracy: 91.500%

Finished Training

Finished Testing