

# Frame Level Speech Recognize

February 26, 2021

```
[1]: import time
import numpy as np
import torch
import matplotlib.pyplot as plt
import seaborn
import os
import sys
import pandas as pd
import torch.nn as nn
import torch.nn.functional as F
from torch.utils.data import DataLoader, Dataset
import torch.optim as optim
from sklearn.metrics import accuracy_score
%matplotlib inline
```

```
[2]: X_train_path = r"C:\Users\Michael\Documents\ALY 6020\group_project\final\train.
      ↪.npz"
y_train_path = r"C:\Users\Michael\Documents\ALY_
      ↪6020\group_project\final\train_labels.npz"

X_val_path = r"C:\Users\Michael\Documents\ALY 6020\group_project\final\dev.npz"
y_val_path = r"C:\Users\Michael\Documents\ALY_
      ↪6020\group_project\final\dev_labels.npz"
```

```
[3]: cuda = torch.cuda.is_available()
num_workers = 0 if cuda else 0
print("Cuda = " + str(cuda) + " with num_workders = " + str(num_workers))
```

Cuda = True with num\_workders = 0

```
[49]: # Define dataset
class WJSdataset(Dataset):
    def __init__(self, X_path, y_path, k):
        self.X = np.load(X_path, allow_pickle=True)
        self.X = np.concatenate(self.X, axis = 0)
        self.X = np.pad(self.X, pad_width = ((k,k),(0,0)), mode = 'constant')

        self.y = np.load(y_path, allow_pickle=True)
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```

self.y = np.concatenate(self.y,axis = None)

#for i in range(self.X.shape[0]):
#    self.X[i] = np.pad(self.X[i], pad_width = ((k, k), (0, 0)),
#                        mode = 'constant')
#self.X = np.concatenate(self.X,axis = 0).
#    for j in range(self.X[i].shape[0]):
#        x = np.concatenate(X_temp[j:j+2*k+1],axis = None)
def __len__(self):
    return len(self.y)

def __getitem__(self, index):

    x = self.X[index:index+2*context+1].flatten()
    y = self.y[index]
    x = torch.from_numpy(x).float()
    y = torch.from_numpy(np.array(y)).long()

    return x, y

```

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[95]: context = 20
```

```
[96]: train = WJSdataset(X_train_path,y_train_path,context)
      val = WJSdataset(X_val_path,y_val_path,context)
```

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[52]: y = np.load(y_train_path,allow_pickle=True)
      with np.printoptions(threshold=np.inf):
          print(y[155])
```

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 58. 58. 58. 67. 67. 67. 67. 67. 67. 67. 37. 37. 37. 37. 46. 46. 46. 35.
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 23. 23. 23. 23. 23. 23. 23. 25. 25. 25. 25. 55. 55. 55. 55. 55. 55. 67.
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 36. 36. 36. 36. 36. 36. 58. 58. 58. 58. 58. 58. 58.  0.  0.  0.  0.]

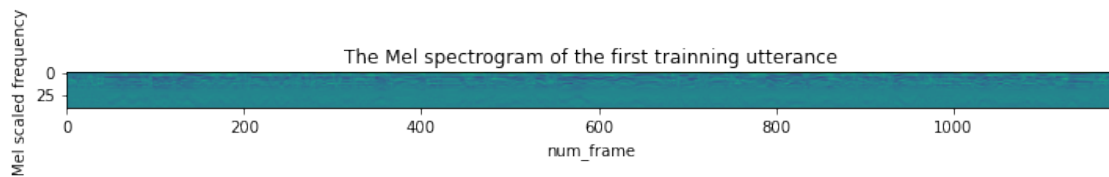
```

```
0. 0. 0. 0. 0. 0. 0. 0. 0. 0.]
```

```
[53]: X_Viz = np.load(X_train_path, allow_pickle=True)
```

```
[54]: plt.figure(figsize=(12,40))
plt.xlabel('num_frame')
plt.ylabel('Mel scaled frequency')
plt.title('The Mel spectrogram of the first training utterance')
plt.imshow(X_Viz[0].T)
print(X_Viz[0].T.shape)
del X_Viz
```

```
(40, 1184)
```



```
[ ]: """import librosa
import librosa.display
import IPython.display as ipd

test_audio = librosa.feature.inverse.mel_to_audio(X_val[1500],window =_
    ↪ 'hamming',\
                                                    sr=8000,n_fft=512)

X_val[155].shape[0]
ipd.Audio(test_audio,rate = 8000)"""
```

```
[99]: len(train)
```

```
[99]: 18482968
```

```
[97]: train_loader_arg = dict(shuffle = True,
                             batch_size = 4096,
                             pin_memory = True, drop_last = True)
train_loader = DataLoader(train,**train_loader_arg, num_workers = num_workers)

val_loader_arg = dict(shuffle = False, batch_size = 4096, pin_memory = True)
val_loader = DataLoader(val,**val_loader_arg, num_workers = num_workers)
```

```
[80]: class CreateModel(nn.Module):
    def __init__(self, num_node_list):
        super(CreateModel,self).__init__()
        layers = []
```

```

self.num_node_list = num_node_list
for i in range(len(num_node_list)-2):
    layers.append(nn.Linear(num_node_list[i], num_node_list[i+1]))
    layers.append(nn.Dropout(p = 0.3))
    layers.append(nn.ReLU())
    layers.append(nn.BatchNorm1d(num_node_list[i+1]))
layers.append(nn.Linear(num_node_list[-2], num_node_list[-1]))
self.net = nn.Sequential(*layers)

def forward(self, x):
    return self.net(x)

```

```

[81]: def one_epoch(model, train_loader, criterion, optimizer):
    model.train()

    running_loss = 0.0
    total_prediction = 0.0
    correct_predictions = 0.0

    start_time = time.time()
    for idx, (data, target) in enumerate(train_loader):

        optimizer.zero_grad()
        data = data.to(device)
        target = target.to(device)

        outputs = model(data)
        loss = criterion(outputs, target)
        running_loss += loss.item()
        #print(outputs.data)
        #print(outputs.data.shape)
        loss.backward()
        optimizer.step()

        _, predicted = torch.max(outputs.data, 1)
        #print(target.size(0))
        #print(predicted.shape)
        total_prediction += target.shape[0]
        correct_predictions += (predicted == target).sum().item()
        #print(correct_predictions)
        print([idx], 'Train Loss: ', loss)
    end_time = time.time()

    running_loss /= len(train_loader)
    print('Training Loss: ', running_loss, 'Time: ', end_time - start_time, 's')

    acc = (correct_predictions/total_prediction)*100.0

```

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print("Training Accuaracy: ", acc, '%')
return running_loss, acc

```

```

[82]: def val_model(model, val_loader, criterion):
    with torch.no_grad():
        model.eval()
        running_loss = 0.0
        total_prediction = 0.0
        correct_predictions = 0.0

        for idx, (data,target) in enumerate(val_loader):

            data = data.to(device)
            target = target.to(device)

            outputs = model(data)
            loss = criterion(outputs, target).detach()
            print([idx], 'Valid Loss: ', loss)
            running_loss += loss.item()
            #print(outputs.data)
            _, predicted = torch.max(outputs.data,1)
            total_prediction += target.size(0)
            #print(target.size(0))
            correct_predictions += (predicted == target).sum().item()
            #print(correct_predictions)

        running_loss /= len(val_loader)
        print('Testing Loss: ', running_loss)

        acc = (correct_predictions/total_prediction)*100.0
        print("Testing Accuaracy: ", acc, '%')
        return running_loss, acc

```

```

[83]: def training_plot(a, b):
    plt.figure(1)
    plt.plot(a,'b',label = "train")
    plt.plot(b,'g', label = "test")
    plt.xlabel("epochs")
    plt.ylabel("Loss")
    plt.title('Training/Test Loss')
    plt.legend()
    plt.show()

```

```

[84]: def training_plot_acc(a, b):
    plt.figure(1)

```

```
plt.plot(a, 'b', label = "train")
plt.plot(b, 'g', label = "test")
plt.xlabel("epochs")
plt.ylabel("Accuracy")
plt.title('Training/Test Accuracy')
plt.legend()
plt.show()
```

```
[85]: print('context: ', context)
model = CreateModel([40*(2*context+1), 2048, 2048, 1024, 512, 256, 71])
criterion = nn.CrossEntropyLoss()
optimizer = optim.Adam(model.parameters(), lr=2e-3)
device = torch.device("cuda")
model.to(device)
print(model)
```

```
context: 25
CreateModel(
  (net): Sequential(
    (0): Linear(in_features=2040, out_features=2048, bias=True)
    (1): Dropout(p=0.3, inplace=False)
    (2): ReLU()
    (3): BatchNorm1d(2048, eps=1e-05, momentum=0.1, affine=True,
track_running_stats=True)
    (4): Linear(in_features=2048, out_features=2048, bias=True)
    (5): Dropout(p=0.3, inplace=False)
    (6): ReLU()
    (7): BatchNorm1d(2048, eps=1e-05, momentum=0.1, affine=True,
track_running_stats=True)
    (8): Linear(in_features=2048, out_features=1024, bias=True)
    (9): Dropout(p=0.3, inplace=False)
    (10): ReLU()
    (11): BatchNorm1d(1024, eps=1e-05, momentum=0.1, affine=True,
track_running_stats=True)
    (12): Linear(in_features=1024, out_features=512, bias=True)
    (13): Dropout(p=0.3, inplace=False)
    (14): ReLU()
    (15): BatchNorm1d(512, eps=1e-05, momentum=0.1, affine=True,
track_running_stats=True)
    (16): Linear(in_features=512, out_features=256, bias=True)
    (17): Dropout(p=0.3, inplace=False)
    (18): ReLU()
    (19): BatchNorm1d(256, eps=1e-05, momentum=0.1, affine=True,
track_running_stats=True)
    (20): Linear(in_features=256, out_features=71, bias=True)
  )
)
```

```
[86]: Path = r'C:\Users\Michael\Documents\ALY 6020\group_project\final'
print(Path)
```

C:\Users\Michael\Documents\ALY 6020\group\_project\final

```
[87]: num_epochs = 10
Train_loss = []
Test_loss = []
Train_acc = []
Test_acc = []

for i in range(num_epochs):
    print("Epoch Number: ", i)
    train_loss, train_acc = one_epoch(model,
                                      train_loader,
                                      criterion=criterion,
                                      optimizer=optimizer)

    test_loss, test_acc = val_model(model, val_loader,
                                    criterion=criterion)

    torch.save(model, os.path.join(Path, '{}.pt'.format('model_V3_' + str(i))))

    Train_loss.append(train_loss)
    Test_loss.append(test_loss)
    Train_acc.append(train_acc)
    Test_acc.append(test_acc)

torch.save(model.state_dict(), os.path.join(Path, '{}.pt'.
    ↪format('modelDict_V3')))
training_plot(Train_loss, Test_loss)
```

Epoch Number: 0

```
[0] Train Loss:  tensor(4.4351, device='cuda:0', grad_fn=<NllLossBackward>)
[1] Train Loss:  tensor(4.0518, device='cuda:0', grad_fn=<NllLossBackward>)
[2] Train Loss:  tensor(3.6510, device='cuda:0', grad_fn=<NllLossBackward>)
[3] Train Loss:  tensor(3.3554, device='cuda:0', grad_fn=<NllLossBackward>)
[4] Train Loss:  tensor(3.1982, device='cuda:0', grad_fn=<NllLossBackward>)
[5] Train Loss:  tensor(3.0103, device='cuda:0', grad_fn=<NllLossBackward>)
[6] Train Loss:  tensor(2.9034, device='cuda:0', grad_fn=<NllLossBackward>)
[7] Train Loss:  tensor(2.8219, device='cuda:0', grad_fn=<NllLossBackward>)
[8] Train Loss:  tensor(2.7585, device='cuda:0', grad_fn=<NllLossBackward>)
[9] Train Loss:  tensor(2.6745, device='cuda:0', grad_fn=<NllLossBackward>)
[10] Train Loss: tensor(2.6288, device='cuda:0', grad_fn=<NllLossBackward>)
[11] Train Loss: tensor(2.5719, device='cuda:0', grad_fn=<NllLossBackward>)
[12] Train Loss: tensor(2.5456, device='cuda:0', grad_fn=<NllLossBackward>)
[13] Train Loss: tensor(2.4636, device='cuda:0', grad_fn=<NllLossBackward>)
[14] Train Loss: tensor(2.4513, device='cuda:0', grad_fn=<NllLossBackward>)
[15] Train Loss: tensor(2.3872, device='cuda:0', grad_fn=<NllLossBackward>)
[16] Train Loss: tensor(2.3315, device='cuda:0', grad_fn=<NllLossBackward>)
```













































































[illegible]



















































































[illegible]









[illegible]





[illegible]

































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[4481] Train Loss: tensor(0.9321, device='cuda:0', grad_fn=<NllLossBackward>)
[4482] Train Loss: tensor(0.9258, device='cuda:0', grad_fn=<NllLossBackward>)
[4483] Train Loss: tensor(0.9426, device='cuda:0', grad_fn=<NllLossBackward>)
[4484] Train Loss: tensor(0.9797, device='cuda:0', grad_fn=<NllLossBackward>)
[4485] Train Loss: tensor(0.9515, device='cuda:0', grad_fn=<NllLossBackward>)
[4486] Train Loss: tensor(0.9414, device='cuda:0', grad_fn=<NllLossBackward>)
[4487] Train Loss: tensor(0.9599, device='cuda:0', grad_fn=<NllLossBackward>)
[4488] Train Loss: tensor(0.9804, device='cuda:0', grad_fn=<NllLossBackward>)
[4489] Train Loss: tensor(0.9531, device='cuda:0', grad_fn=<NllLossBackward>)
[4490] Train Loss: tensor(0.9359, device='cuda:0', grad_fn=<NllLossBackward>)
[4491] Train Loss: tensor(0.9511, device='cuda:0', grad_fn=<NllLossBackward>)
[4492] Train Loss: tensor(0.9392, device='cuda:0', grad_fn=<NllLossBackward>)
[4493] Train Loss: tensor(0.9484, device='cuda:0', grad_fn=<NllLossBackward>)
[4494] Train Loss: tensor(0.9466, device='cuda:0', grad_fn=<NllLossBackward>)
[4495] Train Loss: tensor(0.9429, device='cuda:0', grad_fn=<NllLossBackward>)
[4496] Train Loss: tensor(0.9463, device='cuda:0', grad_fn=<NllLossBackward>)
[4497] Train Loss: tensor(0.9128, device='cuda:0', grad_fn=<NllLossBackward>)
[4498] Train Loss: tensor(0.9118, device='cuda:0', grad_fn=<NllLossBackward>)
[4499] Train Loss: tensor(0.9949, device='cuda:0', grad_fn=<NllLossBackward>)
[4500] Train Loss: tensor(0.9480, device='cuda:0', grad_fn=<NllLossBackward>)
[4501] Train Loss: tensor(0.9562, device='cuda:0', grad_fn=<NllLossBackward>)
[4502] Train Loss: tensor(0.9549, device='cuda:0', grad_fn=<NllLossBackward>)
[4503] Train Loss: tensor(0.9692, device='cuda:0', grad_fn=<NllLossBackward>)
[4504] Train Loss: tensor(0.9514, device='cuda:0', grad_fn=<NllLossBackward>)
[4505] Train Loss: tensor(0.9307, device='cuda:0', grad_fn=<NllLossBackward>)
[4506] Train Loss: tensor(0.9684, device='cuda:0', grad_fn=<NllLossBackward>)
[4507] Train Loss: tensor(0.9433, device='cuda:0', grad_fn=<NllLossBackward>)
[4508] Train Loss: tensor(0.9488, device='cuda:0', grad_fn=<NllLossBackward>)
[4509] Train Loss: tensor(0.9840, device='cuda:0', grad_fn=<NllLossBackward>)
[4510] Train Loss: tensor(0.9617, device='cuda:0', grad_fn=<NllLossBackward>)
[4511] Train Loss: tensor(0.9543, device='cuda:0', grad_fn=<NllLossBackward>)
Training Loss: 1.1194106106719015 Time: 2362.641988515854 s
Training Accuaracy: 66.7067399261691 %
[0] Valid Loss: tensor(0.8637, device='cuda:0')
[1] Valid Loss: tensor(1.0113, device='cuda:0')
[2] Valid Loss: tensor(0.8432, device='cuda:0')
[3] Valid Loss: tensor(0.7607, device='cuda:0')
[4] Valid Loss: tensor(0.8756, device='cuda:0')
[5] Valid Loss: tensor(0.8683, device='cuda:0')
[6] Valid Loss: tensor(0.8889, device='cuda:0')
[7] Valid Loss: tensor(0.9853, device='cuda:0')
[8] Valid Loss: tensor(0.9288, device='cuda:0')
[9] Valid Loss: tensor(0.9938, device='cuda:0')
[10] Valid Loss: tensor(0.7898, device='cuda:0')
[11] Valid Loss: tensor(0.8533, device='cuda:0')
[12] Valid Loss: tensor(1.2511, device='cuda:0')
[13] Valid Loss: tensor(1.1364, device='cuda:0')
[14] Valid Loss: tensor(0.7474, device='cuda:0')

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[15] Valid Loss: tensor(0.9255, device='cuda:0')  
[16] Valid Loss: tensor(0.8013, device='cuda:0')  
[17] Valid Loss: tensor(0.9451, device='cuda:0')  
[18] Valid Loss: tensor(0.8543, device='cuda:0')  
[19] Valid Loss: tensor(0.7997, device='cuda:0')  
[20] Valid Loss: tensor(0.8385, device='cuda:0')  
[21] Valid Loss: tensor(0.7440, device='cuda:0')  
[22] Valid Loss: tensor(0.7468, device='cuda:0')  
[23] Valid Loss: tensor(0.9655, device='cuda:0')  
[24] Valid Loss: tensor(0.8775, device='cuda:0')  
[25] Valid Loss: tensor(1.0371, device='cuda:0')  
[26] Valid Loss: tensor(0.6692, device='cuda:0')  
[27] Valid Loss: tensor(1.0517, device='cuda:0')  
[28] Valid Loss: tensor(0.8330, device='cuda:0')  
[29] Valid Loss: tensor(0.8840, device='cuda:0')  
[30] Valid Loss: tensor(0.7594, device='cuda:0')  
[31] Valid Loss: tensor(0.9218, device='cuda:0')  
[32] Valid Loss: tensor(1.0016, device='cuda:0')  
[33] Valid Loss: tensor(0.9525, device='cuda:0')  
[34] Valid Loss: tensor(0.9175, device='cuda:0')  
[35] Valid Loss: tensor(1.0332, device='cuda:0')  
[36] Valid Loss: tensor(0.8774, device='cuda:0')  
[37] Valid Loss: tensor(1.0973, device='cuda:0')  
[38] Valid Loss: tensor(0.9999, device='cuda:0')  
[39] Valid Loss: tensor(0.8550, device='cuda:0')  
[40] Valid Loss: tensor(0.9347, device='cuda:0')  
[41] Valid Loss: tensor(0.9900, device='cuda:0')  
[42] Valid Loss: tensor(0.9008, device='cuda:0')  
[43] Valid Loss: tensor(0.6953, device='cuda:0')  
[44] Valid Loss: tensor(0.8426, device='cuda:0')  
[45] Valid Loss: tensor(0.7311, device='cuda:0')  
[46] Valid Loss: tensor(1.0267, device='cuda:0')  
[47] Valid Loss: tensor(0.9120, device='cuda:0')  
[48] Valid Loss: tensor(0.8350, device='cuda:0')  
[49] Valid Loss: tensor(0.9072, device='cuda:0')  
[50] Valid Loss: tensor(0.8715, device='cuda:0')  
[51] Valid Loss: tensor(0.8135, device='cuda:0')  
[52] Valid Loss: tensor(0.7872, device='cuda:0')  
[53] Valid Loss: tensor(1.0029, device='cuda:0')  
[54] Valid Loss: tensor(0.7701, device='cuda:0')  
[55] Valid Loss: tensor(0.7084, device='cuda:0')  
[56] Valid Loss: tensor(1.0600, device='cuda:0')  
[57] Valid Loss: tensor(0.9926, device='cuda:0')  
[58] Valid Loss: tensor(0.9485, device='cuda:0')  
[59] Valid Loss: tensor(0.8265, device='cuda:0')  
[60] Valid Loss: tensor(1.1731, device='cuda:0')  
[61] Valid Loss: tensor(0.8408, device='cuda:0')  
[62] Valid Loss: tensor(0.9876, device='cuda:0')

[63] Valid Loss: tensor(0.8894, device='cuda:0')  
[64] Valid Loss: tensor(0.9049, device='cuda:0')  
[65] Valid Loss: tensor(0.9962, device='cuda:0')  
[66] Valid Loss: tensor(0.8537, device='cuda:0')  
[67] Valid Loss: tensor(0.8882, device='cuda:0')  
[68] Valid Loss: tensor(0.8459, device='cuda:0')  
[69] Valid Loss: tensor(0.7250, device='cuda:0')  
[70] Valid Loss: tensor(0.7648, device='cuda:0')  
[71] Valid Loss: tensor(0.9869, device='cuda:0')  
[72] Valid Loss: tensor(0.8996, device='cuda:0')  
[73] Valid Loss: tensor(0.9040, device='cuda:0')  
[74] Valid Loss: tensor(0.8775, device='cuda:0')  
[75] Valid Loss: tensor(0.9879, device='cuda:0')  
[76] Valid Loss: tensor(0.9229, device='cuda:0')  
[77] Valid Loss: tensor(0.8341, device='cuda:0')  
[78] Valid Loss: tensor(0.9099, device='cuda:0')  
[79] Valid Loss: tensor(0.8227, device='cuda:0')  
[80] Valid Loss: tensor(0.9034, device='cuda:0')  
[81] Valid Loss: tensor(0.7599, device='cuda:0')  
[82] Valid Loss: tensor(1.0213, device='cuda:0')  
[83] Valid Loss: tensor(0.9631, device='cuda:0')  
[84] Valid Loss: tensor(0.7804, device='cuda:0')  
[85] Valid Loss: tensor(0.8643, device='cuda:0')  
[86] Valid Loss: tensor(0.9154, device='cuda:0')  
[87] Valid Loss: tensor(0.9803, device='cuda:0')  
[88] Valid Loss: tensor(0.7391, device='cuda:0')  
[89] Valid Loss: tensor(0.9125, device='cuda:0')  
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[350] Valid Loss: tensor(0.8758, device='cuda:0')

```

[351] Valid Loss:  tensor(1.0402, device='cuda:0')
[352] Valid Loss:  tensor(0.7855, device='cuda:0')
[353] Valid Loss:  tensor(0.8768, device='cuda:0')
[354] Valid Loss:  tensor(1.0193, device='cuda:0')
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[380] Valid Loss:  tensor(1.1413, device='cuda:0')

```

Testing Loss: 0.896486697078064

Testing Accuaracy: 72.36310154150874 %

Epoch Number: 1

```

[0] Train Loss:  tensor(0.9154, device='cuda:0', grad_fn=<NllLossBackward>)
[1] Train Loss:  tensor(0.9381, device='cuda:0', grad_fn=<NllLossBackward>)
[2] Train Loss:  tensor(0.9702, device='cuda:0', grad_fn=<NllLossBackward>)
[3] Train Loss:  tensor(0.9196, device='cuda:0', grad_fn=<NllLossBackward>)
[4] Train Loss:  tensor(0.9958, device='cuda:0', grad_fn=<NllLossBackward>)
[5] Train Loss:  tensor(0.9526, device='cuda:0', grad_fn=<NllLossBackward>)
[6] Train Loss:  tensor(0.9302, device='cuda:0', grad_fn=<NllLossBackward>)
[7] Train Loss:  tensor(0.9546, device='cuda:0', grad_fn=<NllLossBackward>)
[8] Train Loss:  tensor(0.9314, device='cuda:0', grad_fn=<NllLossBackward>)
[9] Train Loss:  tensor(0.9270, device='cuda:0', grad_fn=<NllLossBackward>)
[10] Train Loss:  tensor(0.9225, device='cuda:0', grad_fn=<NllLossBackward>)
[11] Train Loss:  tensor(0.9247, device='cuda:0', grad_fn=<NllLossBackward>)
[12] Train Loss:  tensor(0.9202, device='cuda:0', grad_fn=<NllLossBackward>)
[13] Train Loss:  tensor(0.9273, device='cuda:0', grad_fn=<NllLossBackward>)
[14] Train Loss:  tensor(0.9326, device='cuda:0', grad_fn=<NllLossBackward>)

```











[illegible]

































































[illegible]





































































































































[4479] Train Loss: tensor(0.8525, device='cuda:0', grad\_fn=<NllLossBackward>)  
[4480] Train Loss: tensor(0.8544, device='cuda:0', grad\_fn=<NllLossBackward>)  
[4481] Train Loss: tensor(0.8587, device='cuda:0', grad\_fn=<NllLossBackward>)  
[4482] Train Loss: tensor(0.8608, device='cuda:0', grad\_fn=<NllLossBackward>)  
[4483] Train Loss: tensor(0.8370, device='cuda:0', grad\_fn=<NllLossBackward>)  
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[4501] Train Loss: tensor(0.8477, device='cuda:0', grad\_fn=<NllLossBackward>)  
[4502] Train Loss: tensor(0.8519, device='cuda:0', grad\_fn=<NllLossBackward>)  
[4503] Train Loss: tensor(0.8290, device='cuda:0', grad\_fn=<NllLossBackward>)  
[4504] Train Loss: tensor(0.8457, device='cuda:0', grad\_fn=<NllLossBackward>)  
[4505] Train Loss: tensor(0.8388, device='cuda:0', grad\_fn=<NllLossBackward>)  
[4506] Train Loss: tensor(0.8841, device='cuda:0', grad\_fn=<NllLossBackward>)  
[4507] Train Loss: tensor(0.8281, device='cuda:0', grad\_fn=<NllLossBackward>)  
[4508] Train Loss: tensor(0.8718, device='cuda:0', grad\_fn=<NllLossBackward>)  
[4509] Train Loss: tensor(0.8297, device='cuda:0', grad\_fn=<NllLossBackward>)  
[4510] Train Loss: tensor(0.8316, device='cuda:0', grad\_fn=<NllLossBackward>)  
[4511] Train Loss: tensor(0.8385, device='cuda:0', grad\_fn=<NllLossBackward>)

Training Loss: 0.894009234581856 Time: 2528.6109669208527 s

Training Accuaracy: 72.90780358280696 %

[0] Valid Loss: tensor(0.8032, device='cuda:0')  
[1] Valid Loss: tensor(0.9320, device='cuda:0')  
[2] Valid Loss: tensor(0.7954, device='cuda:0')  
[3] Valid Loss: tensor(0.6905, device='cuda:0')  
[4] Valid Loss: tensor(0.7945, device='cuda:0')  
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[337] Valid Loss: tensor(0.9662, device='cuda:0')  
[338] Valid Loss: tensor(0.8589, device='cuda:0')  
[339] Valid Loss: tensor(0.7852, device='cuda:0')  
[340] Valid Loss: tensor(0.8533, device='cuda:0')  
[341] Valid Loss: tensor(0.9249, device='cuda:0')  
[342] Valid Loss: tensor(0.9991, device='cuda:0')  
[343] Valid Loss: tensor(0.8799, device='cuda:0')  
[344] Valid Loss: tensor(0.7314, device='cuda:0')  
[345] Valid Loss: tensor(0.6546, device='cuda:0')  
[346] Valid Loss: tensor(0.7859, device='cuda:0')  
[347] Valid Loss: tensor(0.9012, device='cuda:0')  
[348] Valid Loss: tensor(0.8049, device='cuda:0')

[349] Valid Loss: tensor(0.7609, device='cuda:0')  
[350] Valid Loss: tensor(0.8046, device='cuda:0')  
[351] Valid Loss: tensor(0.9355, device='cuda:0')  
[352] Valid Loss: tensor(0.7306, device='cuda:0')  
[353] Valid Loss: tensor(0.8339, device='cuda:0')  
[354] Valid Loss: tensor(0.9887, device='cuda:0')  
[355] Valid Loss: tensor(0.6499, device='cuda:0')  
[356] Valid Loss: tensor(0.7495, device='cuda:0')  
[357] Valid Loss: tensor(0.8485, device='cuda:0')  
[358] Valid Loss: tensor(0.7729, device='cuda:0')  
[359] Valid Loss: tensor(0.8908, device='cuda:0')  
[360] Valid Loss: tensor(0.8037, device='cuda:0')  
[361] Valid Loss: tensor(0.8280, device='cuda:0')  
[362] Valid Loss: tensor(0.7861, device='cuda:0')  
[363] Valid Loss: tensor(0.8694, device='cuda:0')  
[364] Valid Loss: tensor(0.9881, device='cuda:0')  
[365] Valid Loss: tensor(0.7463, device='cuda:0')  
[366] Valid Loss: tensor(0.7771, device='cuda:0')  
[367] Valid Loss: tensor(0.9083, device='cuda:0')  
[368] Valid Loss: tensor(0.9076, device='cuda:0')  
[369] Valid Loss: tensor(0.7961, device='cuda:0')  
[370] Valid Loss: tensor(0.7033, device='cuda:0')  
[371] Valid Loss: tensor(0.7011, device='cuda:0')  
[372] Valid Loss: tensor(0.8980, device='cuda:0')  
[373] Valid Loss: tensor(0.6548, device='cuda:0')  
[374] Valid Loss: tensor(0.7754, device='cuda:0')  
[375] Valid Loss: tensor(0.8923, device='cuda:0')  
[376] Valid Loss: tensor(0.7229, device='cuda:0')  
[377] Valid Loss: tensor(1.0169, device='cuda:0')  
[378] Valid Loss: tensor(0.7400, device='cuda:0')  
[379] Valid Loss: tensor(0.8914, device='cuda:0')  
[380] Valid Loss: tensor(1.1060, device='cuda:0')

Testing Loss: 0.830471642217611

Testing Accuaracy: 74.34673652085844 %

Epoch Number: 2

[0] Train Loss: tensor(0.8741, device='cuda:0', grad\_fn=<NllLossBackward>)  
[1] Train Loss: tensor(0.8302, device='cuda:0', grad\_fn=<NllLossBackward>)  
[2] Train Loss: tensor(0.8308, device='cuda:0', grad\_fn=<NllLossBackward>)  
[3] Train Loss: tensor(0.8296, device='cuda:0', grad\_fn=<NllLossBackward>)  
[4] Train Loss: tensor(0.8589, device='cuda:0', grad\_fn=<NllLossBackward>)  
[5] Train Loss: tensor(0.8173, device='cuda:0', grad\_fn=<NllLossBackward>)  
[6] Train Loss: tensor(0.8405, device='cuda:0', grad\_fn=<NllLossBackward>)  
[7] Train Loss: tensor(0.8592, device='cuda:0', grad\_fn=<NllLossBackward>)  
[8] Train Loss: tensor(0.8552, device='cuda:0', grad\_fn=<NllLossBackward>)  
[9] Train Loss: tensor(0.8315, device='cuda:0', grad\_fn=<NllLossBackward>)  
[10] Train Loss: tensor(0.8767, device='cuda:0', grad\_fn=<NllLossBackward>)  
[11] Train Loss: tensor(0.8882, device='cuda:0', grad\_fn=<NllLossBackward>)  
[12] Train Loss: tensor(0.8231, device='cuda:0', grad\_fn=<NllLossBackward>)



























[illegible]









































































































































[illegible]















[illegible]

[illegible]



























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[4477] Train Loss: tensor(0.7939, device='cuda:0', grad_fn=<NllLossBackward>)
[4478] Train Loss: tensor(0.8341, device='cuda:0', grad_fn=<NllLossBackward>)
[4479] Train Loss: tensor(0.8375, device='cuda:0', grad_fn=<NllLossBackward>)
[4480] Train Loss: tensor(0.8162, device='cuda:0', grad_fn=<NllLossBackward>)
[4481] Train Loss: tensor(0.8137, device='cuda:0', grad_fn=<NllLossBackward>)
[4482] Train Loss: tensor(0.8109, device='cuda:0', grad_fn=<NllLossBackward>)
[4483] Train Loss: tensor(0.8141, device='cuda:0', grad_fn=<NllLossBackward>)
[4484] Train Loss: tensor(0.8188, device='cuda:0', grad_fn=<NllLossBackward>)
[4485] Train Loss: tensor(0.8214, device='cuda:0', grad_fn=<NllLossBackward>)
[4486] Train Loss: tensor(0.8162, device='cuda:0', grad_fn=<NllLossBackward>)
[4487] Train Loss: tensor(0.7809, device='cuda:0', grad_fn=<NllLossBackward>)
[4488] Train Loss: tensor(0.7909, device='cuda:0', grad_fn=<NllLossBackward>)
[4489] Train Loss: tensor(0.8115, device='cuda:0', grad_fn=<NllLossBackward>)
[4490] Train Loss: tensor(0.7946, device='cuda:0', grad_fn=<NllLossBackward>)
[4491] Train Loss: tensor(0.8262, device='cuda:0', grad_fn=<NllLossBackward>)
[4492] Train Loss: tensor(0.8234, device='cuda:0', grad_fn=<NllLossBackward>)
[4493] Train Loss: tensor(0.8007, device='cuda:0', grad_fn=<NllLossBackward>)
[4494] Train Loss: tensor(0.8214, device='cuda:0', grad_fn=<NllLossBackward>)
[4495] Train Loss: tensor(0.8373, device='cuda:0', grad_fn=<NllLossBackward>)
[4496] Train Loss: tensor(0.8207, device='cuda:0', grad_fn=<NllLossBackward>)
[4497] Train Loss: tensor(0.8076, device='cuda:0', grad_fn=<NllLossBackward>)
[4498] Train Loss: tensor(0.8281, device='cuda:0', grad_fn=<NllLossBackward>)
[4499] Train Loss: tensor(0.8430, device='cuda:0', grad_fn=<NllLossBackward>)
[4500] Train Loss: tensor(0.7955, device='cuda:0', grad_fn=<NllLossBackward>)
[4501] Train Loss: tensor(0.8499, device='cuda:0', grad_fn=<NllLossBackward>)
[4502] Train Loss: tensor(0.8171, device='cuda:0', grad_fn=<NllLossBackward>)
[4503] Train Loss: tensor(0.8303, device='cuda:0', grad_fn=<NllLossBackward>)
[4504] Train Loss: tensor(0.8215, device='cuda:0', grad_fn=<NllLossBackward>)
[4505] Train Loss: tensor(0.8394, device='cuda:0', grad_fn=<NllLossBackward>)
[4506] Train Loss: tensor(0.8182, device='cuda:0', grad_fn=<NllLossBackward>)
[4507] Train Loss: tensor(0.8126, device='cuda:0', grad_fn=<NllLossBackward>)
[4508] Train Loss: tensor(0.7959, device='cuda:0', grad_fn=<NllLossBackward>)
[4509] Train Loss: tensor(0.8376, device='cuda:0', grad_fn=<NllLossBackward>)
[4510] Train Loss: tensor(0.7983, device='cuda:0', grad_fn=<NllLossBackward>)
[4511] Train Loss: tensor(0.7976, device='cuda:0', grad_fn=<NllLossBackward>)
Training Loss: 0.82780744941205 Time: 2520.960553884506 s
Training Accuaracy: 74.78449936454177 %
[0] Valid Loss: tensor(0.7629, device='cuda:0')
[1] Valid Loss: tensor(0.9257, device='cuda:0')
[2] Valid Loss: tensor(0.7415, device='cuda:0')
[3] Valid Loss: tensor(0.6687, device='cuda:0')
[4] Valid Loss: tensor(0.7882, device='cuda:0')
[5] Valid Loss: tensor(0.7834, device='cuda:0')
[6] Valid Loss: tensor(0.7807, device='cuda:0')
[7] Valid Loss: tensor(0.8840, device='cuda:0')
[8] Valid Loss: tensor(0.8427, device='cuda:0')
[9] Valid Loss: tensor(0.8767, device='cuda:0')
[10] Valid Loss: tensor(0.7345, device='cuda:0')

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[11] Valid Loss: tensor(0.7144, device='cuda:0')  
[12] Valid Loss: tensor(1.1644, device='cuda:0')  
[13] Valid Loss: tensor(0.9973, device='cuda:0')  
[14] Valid Loss: tensor(0.6694, device='cuda:0')  
[15] Valid Loss: tensor(0.7954, device='cuda:0')  
[16] Valid Loss: tensor(0.6846, device='cuda:0')  
[17] Valid Loss: tensor(0.8328, device='cuda:0')  
[18] Valid Loss: tensor(0.7236, device='cuda:0')  
[19] Valid Loss: tensor(0.6793, device='cuda:0')  
[20] Valid Loss: tensor(0.7294, device='cuda:0')  
[21] Valid Loss: tensor(0.6516, device='cuda:0')  
[22] Valid Loss: tensor(0.6396, device='cuda:0')  
[23] Valid Loss: tensor(0.8780, device='cuda:0')  
[24] Valid Loss: tensor(0.7844, device='cuda:0')  
[25] Valid Loss: tensor(0.9940, device='cuda:0')  
[26] Valid Loss: tensor(0.5716, device='cuda:0')  
[27] Valid Loss: tensor(0.9234, device='cuda:0')  
[28] Valid Loss: tensor(0.7433, device='cuda:0')  
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[30] Valid Loss: tensor(0.6725, device='cuda:0')  
[31] Valid Loss: tensor(0.7936, device='cuda:0')  
[32] Valid Loss: tensor(0.9023, device='cuda:0')  
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[34] Valid Loss: tensor(0.8261, device='cuda:0')  
[35] Valid Loss: tensor(0.9114, device='cuda:0')  
[36] Valid Loss: tensor(0.7418, device='cuda:0')  
[37] Valid Loss: tensor(1.0632, device='cuda:0')  
[38] Valid Loss: tensor(0.8757, device='cuda:0')  
[39] Valid Loss: tensor(0.7287, device='cuda:0')  
[40] Valid Loss: tensor(0.8349, device='cuda:0')  
[41] Valid Loss: tensor(0.9137, device='cuda:0')  
[42] Valid Loss: tensor(0.8300, device='cuda:0')  
[43] Valid Loss: tensor(0.6177, device='cuda:0')  
[44] Valid Loss: tensor(0.7333, device='cuda:0')  
[45] Valid Loss: tensor(0.6322, device='cuda:0')  
[46] Valid Loss: tensor(0.9337, device='cuda:0')  
[47] Valid Loss: tensor(0.8555, device='cuda:0')  
[48] Valid Loss: tensor(0.7304, device='cuda:0')  
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[53] Valid Loss: tensor(0.9305, device='cuda:0')  
[54] Valid Loss: tensor(0.6716, device='cuda:0')  
[55] Valid Loss: tensor(0.6226, device='cuda:0')  
[56] Valid Loss: tensor(0.9220, device='cuda:0')  
[57] Valid Loss: tensor(0.8642, device='cuda:0')  
[58] Valid Loss: tensor(0.8188, device='cuda:0')

[59] Valid Loss: tensor(0.7241, device='cuda:0')  
[60] Valid Loss: tensor(1.0560, device='cuda:0')  
[61] Valid Loss: tensor(0.7541, device='cuda:0')  
[62] Valid Loss: tensor(0.8981, device='cuda:0')  
[63] Valid Loss: tensor(0.7357, device='cuda:0')  
[64] Valid Loss: tensor(0.7966, device='cuda:0')  
[65] Valid Loss: tensor(0.9079, device='cuda:0')  
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[85] Valid Loss: tensor(0.7911, device='cuda:0')  
[86] Valid Loss: tensor(0.8129, device='cuda:0')  
[87] Valid Loss: tensor(0.8759, device='cuda:0')  
[88] Valid Loss: tensor(0.6268, device='cuda:0')  
[89] Valid Loss: tensor(0.8279, device='cuda:0')  
[90] Valid Loss: tensor(0.9683, device='cuda:0')  
[91] Valid Loss: tensor(0.8092, device='cuda:0')  
[92] Valid Loss: tensor(0.8291, device='cuda:0')  
[93] Valid Loss: tensor(0.8404, device='cuda:0')  
[94] Valid Loss: tensor(0.8834, device='cuda:0')  
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[98] Valid Loss: tensor(0.8662, device='cuda:0')  
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[100] Valid Loss: tensor(0.8236, device='cuda:0')  
[101] Valid Loss: tensor(0.7733, device='cuda:0')  
[102] Valid Loss: tensor(0.9317, device='cuda:0')  
[103] Valid Loss: tensor(0.9119, device='cuda:0')  
[104] Valid Loss: tensor(0.7134, device='cuda:0')  
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[106] Valid Loss: tensor(0.6377, device='cuda:0')

[107] Valid Loss: tensor(0.8292, device='cuda:0')  
[108] Valid Loss: tensor(0.8931, device='cuda:0')  
[109] Valid Loss: tensor(0.7991, device='cuda:0')  
[110] Valid Loss: tensor(0.8566, device='cuda:0')  
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[131] Valid Loss: tensor(0.7319, device='cuda:0')  
[132] Valid Loss: tensor(0.7495, device='cuda:0')  
[133] Valid Loss: tensor(0.8360, device='cuda:0')  
[134] Valid Loss: tensor(0.7310, device='cuda:0')  
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[136] Valid Loss: tensor(0.6734, device='cuda:0')  
[137] Valid Loss: tensor(1.0277, device='cuda:0')  
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[155] Valid Loss: tensor(0.8062, device='cuda:0')  
[156] Valid Loss: tensor(0.8567, device='cuda:0')  
[157] Valid Loss: tensor(0.7155, device='cuda:0')  
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[159] Valid Loss: tensor(0.7825, device='cuda:0')  
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[164] Valid Loss: tensor(1.0057, device='cuda:0')  
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[167] Valid Loss: tensor(0.6932, device='cuda:0')  
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[170] Valid Loss: tensor(0.7304, device='cuda:0')  
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[181] Valid Loss: tensor(0.7910, device='cuda:0')  
[182] Valid Loss: tensor(0.8012, device='cuda:0')  
[183] Valid Loss: tensor(0.8040, device='cuda:0')  
[184] Valid Loss: tensor(0.9520, device='cuda:0')  
[185] Valid Loss: tensor(0.8910, device='cuda:0')  
[186] Valid Loss: tensor(0.7532, device='cuda:0')  
[187] Valid Loss: tensor(0.8792, device='cuda:0')  
[188] Valid Loss: tensor(0.9347, device='cuda:0')  
[189] Valid Loss: tensor(0.7830, device='cuda:0')  
[190] Valid Loss: tensor(0.7934, device='cuda:0')  
[191] Valid Loss: tensor(0.6622, device='cuda:0')  
[192] Valid Loss: tensor(1.0384, device='cuda:0')  
[193] Valid Loss: tensor(0.8223, device='cuda:0')  
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[195] Valid Loss: tensor(0.8888, device='cuda:0')  
[196] Valid Loss: tensor(0.6727, device='cuda:0')  
[197] Valid Loss: tensor(0.8239, device='cuda:0')  
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[200] Valid Loss: tensor(0.8194, device='cuda:0')  
[201] Valid Loss: tensor(0.7642, device='cuda:0')  
[202] Valid Loss: tensor(0.7315, device='cuda:0')

[203] Valid Loss: tensor(0.9584, device='cuda:0')  
[204] Valid Loss: tensor(0.9102, device='cuda:0')  
[205] Valid Loss: tensor(0.8958, device='cuda:0')  
[206] Valid Loss: tensor(0.9703, device='cuda:0')  
[207] Valid Loss: tensor(0.8134, device='cuda:0')  
[208] Valid Loss: tensor(0.6883, device='cuda:0')  
[209] Valid Loss: tensor(0.7738, device='cuda:0')  
[210] Valid Loss: tensor(1.1507, device='cuda:0')  
[211] Valid Loss: tensor(0.8019, device='cuda:0')  
[212] Valid Loss: tensor(0.6751, device='cuda:0')  
[213] Valid Loss: tensor(0.7687, device='cuda:0')  
[214] Valid Loss: tensor(0.7435, device='cuda:0')  
[215] Valid Loss: tensor(0.8508, device='cuda:0')  
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[219] Valid Loss: tensor(0.7433, device='cuda:0')  
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[222] Valid Loss: tensor(0.6331, device='cuda:0')  
[223] Valid Loss: tensor(0.7457, device='cuda:0')  
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[225] Valid Loss: tensor(0.6747, device='cuda:0')  
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[229] Valid Loss: tensor(0.7298, device='cuda:0')  
[230] Valid Loss: tensor(0.8360, device='cuda:0')  
[231] Valid Loss: tensor(0.7376, device='cuda:0')  
[232] Valid Loss: tensor(0.6395, device='cuda:0')  
[233] Valid Loss: tensor(0.7422, device='cuda:0')  
[234] Valid Loss: tensor(0.6784, device='cuda:0')  
[235] Valid Loss: tensor(0.6534, device='cuda:0')  
[236] Valid Loss: tensor(0.8102, device='cuda:0')  
[237] Valid Loss: tensor(0.8459, device='cuda:0')  
[238] Valid Loss: tensor(0.5957, device='cuda:0')  
[239] Valid Loss: tensor(0.8329, device='cuda:0')  
[240] Valid Loss: tensor(0.7569, device='cuda:0')  
[241] Valid Loss: tensor(0.6900, device='cuda:0')  
[242] Valid Loss: tensor(0.5907, device='cuda:0')  
[243] Valid Loss: tensor(1.2206, device='cuda:0')  
[244] Valid Loss: tensor(0.8524, device='cuda:0')  
[245] Valid Loss: tensor(0.7507, device='cuda:0')  
[246] Valid Loss: tensor(0.7323, device='cuda:0')  
[247] Valid Loss: tensor(0.7565, device='cuda:0')  
[248] Valid Loss: tensor(0.9837, device='cuda:0')  
[249] Valid Loss: tensor(0.7711, device='cuda:0')  
[250] Valid Loss: tensor(0.8242, device='cuda:0')

[251] Valid Loss: tensor(0.8833, device='cuda:0')  
[252] Valid Loss: tensor(0.6781, device='cuda:0')  
[253] Valid Loss: tensor(0.6891, device='cuda:0')  
[254] Valid Loss: tensor(0.7198, device='cuda:0')  
[255] Valid Loss: tensor(0.8404, device='cuda:0')  
[256] Valid Loss: tensor(0.8615, device='cuda:0')  
[257] Valid Loss: tensor(0.7102, device='cuda:0')  
[258] Valid Loss: tensor(0.8886, device='cuda:0')  
[259] Valid Loss: tensor(0.7798, device='cuda:0')  
[260] Valid Loss: tensor(0.9505, device='cuda:0')  
[261] Valid Loss: tensor(0.8321, device='cuda:0')  
[262] Valid Loss: tensor(0.9619, device='cuda:0')  
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[264] Valid Loss: tensor(0.8767, device='cuda:0')  
[265] Valid Loss: tensor(0.8549, device='cuda:0')  
[266] Valid Loss: tensor(0.7178, device='cuda:0')  
[267] Valid Loss: tensor(0.7807, device='cuda:0')  
[268] Valid Loss: tensor(0.7572, device='cuda:0')  
[269] Valid Loss: tensor(0.7497, device='cuda:0')  
[270] Valid Loss: tensor(0.6914, device='cuda:0')  
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[272] Valid Loss: tensor(0.7768, device='cuda:0')  
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[274] Valid Loss: tensor(0.7914, device='cuda:0')  
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[276] Valid Loss: tensor(0.7083, device='cuda:0')  
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[285] Valid Loss: tensor(0.6167, device='cuda:0')  
[286] Valid Loss: tensor(0.8631, device='cuda:0')  
[287] Valid Loss: tensor(0.9913, device='cuda:0')  
[288] Valid Loss: tensor(0.6115, device='cuda:0')  
[289] Valid Loss: tensor(0.8466, device='cuda:0')  
[290] Valid Loss: tensor(0.6524, device='cuda:0')  
[291] Valid Loss: tensor(0.7609, device='cuda:0')  
[292] Valid Loss: tensor(0.8929, device='cuda:0')  
[293] Valid Loss: tensor(0.7079, device='cuda:0')  
[294] Valid Loss: tensor(0.9051, device='cuda:0')  
[295] Valid Loss: tensor(0.7029, device='cuda:0')  
[296] Valid Loss: tensor(0.8162, device='cuda:0')  
[297] Valid Loss: tensor(0.8410, device='cuda:0')  
[298] Valid Loss: tensor(0.7274, device='cuda:0')

[299] Valid Loss: tensor(0.8512, device='cuda:0')  
[300] Valid Loss: tensor(0.9480, device='cuda:0')  
[301] Valid Loss: tensor(0.6327, device='cuda:0')  
[302] Valid Loss: tensor(0.6202, device='cuda:0')  
[303] Valid Loss: tensor(0.7522, device='cuda:0')  
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[305] Valid Loss: tensor(0.7953, device='cuda:0')  
[306] Valid Loss: tensor(0.8274, device='cuda:0')  
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[308] Valid Loss: tensor(0.6875, device='cuda:0')  
[309] Valid Loss: tensor(0.7642, device='cuda:0')  
[310] Valid Loss: tensor(0.7741, device='cuda:0')  
[311] Valid Loss: tensor(0.6910, device='cuda:0')  
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[314] Valid Loss: tensor(0.7599, device='cuda:0')  
[315] Valid Loss: tensor(1.0553, device='cuda:0')  
[316] Valid Loss: tensor(0.8825, device='cuda:0')  
[317] Valid Loss: tensor(0.7496, device='cuda:0')  
[318] Valid Loss: tensor(0.7424, device='cuda:0')  
[319] Valid Loss: tensor(0.7049, device='cuda:0')  
[320] Valid Loss: tensor(0.7161, device='cuda:0')  
[321] Valid Loss: tensor(0.7171, device='cuda:0')  
[322] Valid Loss: tensor(0.7138, device='cuda:0')  
[323] Valid Loss: tensor(0.8613, device='cuda:0')  
[324] Valid Loss: tensor(0.7910, device='cuda:0')  
[325] Valid Loss: tensor(0.6971, device='cuda:0')  
[326] Valid Loss: tensor(0.7795, device='cuda:0')  
[327] Valid Loss: tensor(0.5259, device='cuda:0')  
[328] Valid Loss: tensor(0.7432, device='cuda:0')  
[329] Valid Loss: tensor(0.8436, device='cuda:0')  
[330] Valid Loss: tensor(0.6474, device='cuda:0')  
[331] Valid Loss: tensor(0.9786, device='cuda:0')  
[332] Valid Loss: tensor(0.6708, device='cuda:0')  
[333] Valid Loss: tensor(0.6457, device='cuda:0')  
[334] Valid Loss: tensor(0.6693, device='cuda:0')  
[335] Valid Loss: tensor(0.7489, device='cuda:0')  
[336] Valid Loss: tensor(0.8396, device='cuda:0')  
[337] Valid Loss: tensor(0.9371, device='cuda:0')  
[338] Valid Loss: tensor(0.8236, device='cuda:0')  
[339] Valid Loss: tensor(0.7532, device='cuda:0')  
[340] Valid Loss: tensor(0.8186, device='cuda:0')  
[341] Valid Loss: tensor(0.8812, device='cuda:0')  
[342] Valid Loss: tensor(0.9539, device='cuda:0')  
[343] Valid Loss: tensor(0.8067, device='cuda:0')  
[344] Valid Loss: tensor(0.6951, device='cuda:0')  
[345] Valid Loss: tensor(0.6148, device='cuda:0')  
[346] Valid Loss: tensor(0.7654, device='cuda:0')



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[347] Valid Loss:  tensor(0.8888, device='cuda:0')
[348] Valid Loss:  tensor(0.7537, device='cuda:0')
[349] Valid Loss:  tensor(0.7202, device='cuda:0')
[350] Valid Loss:  tensor(0.7742, device='cuda:0')
[351] Valid Loss:  tensor(0.8846, device='cuda:0')
[352] Valid Loss:  tensor(0.6835, device='cuda:0')
[353] Valid Loss:  tensor(0.7978, device='cuda:0')
[354] Valid Loss:  tensor(0.9479, device='cuda:0')
[355] Valid Loss:  tensor(0.6028, device='cuda:0')
[356] Valid Loss:  tensor(0.7203, device='cuda:0')
[357] Valid Loss:  tensor(0.8573, device='cuda:0')
[358] Valid Loss:  tensor(0.7440, device='cuda:0')
[359] Valid Loss:  tensor(0.8428, device='cuda:0')
[360] Valid Loss:  tensor(0.7602, device='cuda:0')
[361] Valid Loss:  tensor(0.7954, device='cuda:0')
[362] Valid Loss:  tensor(0.7722, device='cuda:0')
[363] Valid Loss:  tensor(0.8652, device='cuda:0')
[364] Valid Loss:  tensor(0.9656, device='cuda:0')
[365] Valid Loss:  tensor(0.7420, device='cuda:0')
[366] Valid Loss:  tensor(0.7461, device='cuda:0')
[367] Valid Loss:  tensor(0.8335, device='cuda:0')
[368] Valid Loss:  tensor(0.8945, device='cuda:0')
[369] Valid Loss:  tensor(0.7799, device='cuda:0')
[370] Valid Loss:  tensor(0.6571, device='cuda:0')
[371] Valid Loss:  tensor(0.6794, device='cuda:0')
[372] Valid Loss:  tensor(0.8797, device='cuda:0')
[373] Valid Loss:  tensor(0.6042, device='cuda:0')
[374] Valid Loss:  tensor(0.7637, device='cuda:0')
[375] Valid Loss:  tensor(0.8645, device='cuda:0')
[376] Valid Loss:  tensor(0.7030, device='cuda:0')
[377] Valid Loss:  tensor(0.9690, device='cuda:0')
[378] Valid Loss:  tensor(0.6725, device='cuda:0')
[379] Valid Loss:  tensor(0.8609, device='cuda:0')
[380] Valid Loss:  tensor(1.0919, device='cuda:0')
Testing Loss:  0.796104325397121
Testing Accuaracy:  75.39057263461181 %
Epoch Number:  3
[0] Train Loss:  tensor(0.7843, device='cuda:0', grad_fn=<NllLossBackward>)
[1] Train Loss:  tensor(0.8066, device='cuda:0', grad_fn=<NllLossBackward>)
[2] Train Loss:  tensor(0.7866, device='cuda:0', grad_fn=<NllLossBackward>)
[3] Train Loss:  tensor(0.8224, device='cuda:0', grad_fn=<NllLossBackward>)
[4] Train Loss:  tensor(0.7796, device='cuda:0', grad_fn=<NllLossBackward>)
[5] Train Loss:  tensor(0.7922, device='cuda:0', grad_fn=<NllLossBackward>)
[6] Train Loss:  tensor(0.7852, device='cuda:0', grad_fn=<NllLossBackward>)
[7] Train Loss:  tensor(0.8204, device='cuda:0', grad_fn=<NllLossBackward>)
[8] Train Loss:  tensor(0.7795, device='cuda:0', grad_fn=<NllLossBackward>)
[9] Train Loss:  tensor(0.7780, device='cuda:0', grad_fn=<NllLossBackward>)
[10] Train Loss:  tensor(0.8058, device='cuda:0', grad_fn=<NllLossBackward>)

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[155] Train Loss: tensor(0.7952, device='cuda:0', grad\_fn=<NllLossBackward>)  
[156] Train Loss: tensor(0.7687, device='cuda:0', grad\_fn=<NllLossBackward>)  
[157] Train Loss: tensor(0.7878, device='cuda:0', grad\_fn=<NllLossBackward>)  
[158] Train Loss: tensor(0.7920, device='cuda:0', grad\_fn=<NllLossBackward>)  
[159] Train Loss: tensor(0.8103, device='cuda:0', grad\_fn=<NllLossBackward>)  
[160] Train Loss: tensor(0.7551, device='cuda:0', grad\_fn=<NllLossBackward>)  
[161] Train Loss: tensor(0.7795, device='cuda:0', grad\_fn=<NllLossBackward>)  
[162] Train Loss: tensor(0.7655, device='cuda:0', grad\_fn=<NllLossBackward>)  
[163] Train Loss: tensor(0.8079, device='cuda:0', grad\_fn=<NllLossBackward>)  
[164] Train Loss: tensor(0.7822, device='cuda:0', grad\_fn=<NllLossBackward>)  
[165] Train Loss: tensor(0.8017, device='cuda:0', grad\_fn=<NllLossBackward>)  
[166] Train Loss: tensor(0.7720, device='cuda:0', grad\_fn=<NllLossBackward>)  
[167] Train Loss: tensor(0.8239, device='cuda:0', grad\_fn=<NllLossBackward>)  
[168] Train Loss: tensor(0.8340, device='cuda:0', grad\_fn=<NllLossBackward>)  
[169] Train Loss: tensor(0.7744, device='cuda:0', grad\_fn=<NllLossBackward>)  
[170] Train Loss: tensor(0.8094, device='cuda:0', grad\_fn=<NllLossBackward>)  
[171] Train Loss: tensor(0.7685, device='cuda:0', grad\_fn=<NllLossBackward>)  
[172] Train Loss: tensor(0.8054, device='cuda:0', grad\_fn=<NllLossBackward>)  
[173] Train Loss: tensor(0.8107, device='cuda:0', grad\_fn=<NllLossBackward>)  
[174] Train Loss: tensor(0.7796, device='cuda:0', grad\_fn=<NllLossBackward>)  
[175] Train Loss: tensor(0.8005, device='cuda:0', grad\_fn=<NllLossBackward>)  
[176] Train Loss: tensor(0.7920, device='cuda:0', grad\_fn=<NllLossBackward>)  
[177] Train Loss: tensor(0.7749, device='cuda:0', grad\_fn=<NllLossBackward>)  
[178] Train Loss: tensor(0.7712, device='cuda:0', grad\_fn=<NllLossBackward>)  
[179] Train Loss: tensor(0.7756, device='cuda:0', grad\_fn=<NllLossBackward>)  
[180] Train Loss: tensor(0.8186, device='cuda:0', grad\_fn=<NllLossBackward>)  
[181] Train Loss: tensor(0.8093, device='cuda:0', grad\_fn=<NllLossBackward>)  
[182] Train Loss: tensor(0.8137, device='cuda:0', grad\_fn=<NllLossBackward>)  
[183] Train Loss: tensor(0.8007, device='cuda:0', grad\_fn=<NllLossBackward>)  
[184] Train Loss: tensor(0.8008, device='cuda:0', grad\_fn=<NllLossBackward>)  
[185] Train Loss: tensor(0.7900, device='cuda:0', grad\_fn=<NllLossBackward>)  
[186] Train Loss: tensor(0.8181, device='cuda:0', grad\_fn=<NllLossBackward>)  
[187] Train Loss: tensor(0.8003, device='cuda:0', grad\_fn=<NllLossBackward>)  
[188] Train Loss: tensor(0.7929, device='cuda:0', grad\_fn=<NllLossBackward>)  
[189] Train Loss: tensor(0.7674, device='cuda:0', grad\_fn=<NllLossBackward>)  
[190] Train Loss: tensor(0.7605, device='cuda:0', grad\_fn=<NllLossBackward>)  
[191] Train Loss: tensor(0.8327, device='cuda:0', grad\_fn=<NllLossBackward>)  
[192] Train Loss: tensor(0.8075, device='cuda:0', grad\_fn=<NllLossBackward>)  
[193] Train Loss: tensor(0.7804, device='cuda:0', grad\_fn=<NllLossBackward>)  
[194] Train Loss: tensor(0.7874, device='cuda:0', grad\_fn=<NllLossBackward>)  
[195] Train Loss: tensor(0.7998, device='cuda:0', grad\_fn=<NllLossBackward>)  
[196] Train Loss: tensor(0.7808, device='cuda:0', grad\_fn=<NllLossBackward>)  
[197] Train Loss: tensor(0.7639, device='cuda:0', grad\_fn=<NllLossBackward>)  
[198] Train Loss: tensor(0.7839, device='cuda:0', grad\_fn=<NllLossBackward>)  
[199] Train Loss: tensor(0.8142, device='cuda:0', grad\_fn=<NllLossBackward>)  
[200] Train Loss: tensor(0.7949, device='cuda:0', grad\_fn=<NllLossBackward>)  
[201] Train Loss: tensor(0.8024, device='cuda:0', grad\_fn=<NllLossBackward>)  
[202] Train Loss: tensor(0.8190, device='cuda:0', grad\_fn=<NllLossBackward>)

































[875] Train Loss: tensor(0.8075, device='cuda:0', grad\_fn=<NllLossBackward>)  
[876] Train Loss: tensor(0.7828, device='cuda:0', grad\_fn=<NllLossBackward>)  
[877] Train Loss: tensor(0.7984, device='cuda:0', grad\_fn=<NllLossBackward>)  
[878] Train Loss: tensor(0.8051, device='cuda:0', grad\_fn=<NllLossBackward>)  
[879] Train Loss: tensor(0.8105, device='cuda:0', grad\_fn=<NllLossBackward>)  
[880] Train Loss: tensor(0.7849, device='cuda:0', grad\_fn=<NllLossBackward>)  
[881] Train Loss: tensor(0.7697, device='cuda:0', grad\_fn=<NllLossBackward>)  
[882] Train Loss: tensor(0.8046, device='cuda:0', grad\_fn=<NllLossBackward>)  
[883] Train Loss: tensor(0.8119, device='cuda:0', grad\_fn=<NllLossBackward>)  
[884] Train Loss: tensor(0.8072, device='cuda:0', grad\_fn=<NllLossBackward>)  
[885] Train Loss: tensor(0.7705, device='cuda:0', grad\_fn=<NllLossBackward>)  
[886] Train Loss: tensor(0.7848, device='cuda:0', grad\_fn=<NllLossBackward>)  
[887] Train Loss: tensor(0.7737, device='cuda:0', grad\_fn=<NllLossBackward>)  
[888] Train Loss: tensor(0.8111, device='cuda:0', grad\_fn=<NllLossBackward>)  
[889] Train Loss: tensor(0.8286, device='cuda:0', grad\_fn=<NllLossBackward>)  
[890] Train Loss: tensor(0.8100, device='cuda:0', grad\_fn=<NllLossBackward>)  
[891] Train Loss: tensor(0.8064, device='cuda:0', grad\_fn=<NllLossBackward>)  
[892] Train Loss: tensor(0.8053, device='cuda:0', grad\_fn=<NllLossBackward>)  
[893] Train Loss: tensor(0.8428, device='cuda:0', grad\_fn=<NllLossBackward>)  
[894] Train Loss: tensor(0.8319, device='cuda:0', grad\_fn=<NllLossBackward>)  
[895] Train Loss: tensor(0.7941, device='cuda:0', grad\_fn=<NllLossBackward>)  
[896] Train Loss: tensor(0.7897, device='cuda:0', grad\_fn=<NllLossBackward>)  
[897] Train Loss: tensor(0.8021, device='cuda:0', grad\_fn=<NllLossBackward>)  
[898] Train Loss: tensor(0.8013, device='cuda:0', grad\_fn=<NllLossBackward>)  
[899] Train Loss: tensor(0.8044, device='cuda:0', grad\_fn=<NllLossBackward>)  
[900] Train Loss: tensor(0.7850, device='cuda:0', grad\_fn=<NllLossBackward>)  
[901] Train Loss: tensor(0.8255, device='cuda:0', grad\_fn=<NllLossBackward>)  
[902] Train Loss: tensor(0.7834, device='cuda:0', grad\_fn=<NllLossBackward>)  
[903] Train Loss: tensor(0.8257, device='cuda:0', grad\_fn=<NllLossBackward>)  
[904] Train Loss: tensor(0.8489, device='cuda:0', grad\_fn=<NllLossBackward>)  
[905] Train Loss: tensor(0.8098, device='cuda:0', grad\_fn=<NllLossBackward>)  
[906] Train Loss: tensor(0.8111, device='cuda:0', grad\_fn=<NllLossBackward>)  
[907] Train Loss: tensor(0.7988, device='cuda:0', grad\_fn=<NllLossBackward>)  
[908] Train Loss: tensor(0.7877, device='cuda:0', grad\_fn=<NllLossBackward>)  
[909] Train Loss: tensor(0.7968, device='cuda:0', grad\_fn=<NllLossBackward>)  
[910] Train Loss: tensor(0.7913, device='cuda:0', grad\_fn=<NllLossBackward>)  
[911] Train Loss: tensor(0.8269, device='cuda:0', grad\_fn=<NllLossBackward>)  
[912] Train Loss: tensor(0.7917, device='cuda:0', grad\_fn=<NllLossBackward>)  
[913] Train Loss: tensor(0.7885, device='cuda:0', grad\_fn=<NllLossBackward>)  
[914] Train Loss: tensor(0.8050, device='cuda:0', grad\_fn=<NllLossBackward>)  
[915] Train Loss: tensor(0.8009, device='cuda:0', grad\_fn=<NllLossBackward>)  
[916] Train Loss: tensor(0.8066, device='cuda:0', grad\_fn=<NllLossBackward>)  
[917] Train Loss: tensor(0.8002, device='cuda:0', grad\_fn=<NllLossBackward>)  
[918] Train Loss: tensor(0.8071, device='cuda:0', grad\_fn=<NllLossBackward>)  
[919] Train Loss: tensor(0.8296, device='cuda:0', grad\_fn=<NllLossBackward>)  
[920] Train Loss: tensor(0.8148, device='cuda:0', grad\_fn=<NllLossBackward>)  
[921] Train Loss: tensor(0.7972, device='cuda:0', grad\_fn=<NllLossBackward>)  
[922] Train Loss: tensor(0.7897, device='cuda:0', grad\_fn=<NllLossBackward>)





[illegible]



















[illegible]





[illegible]

















[illegible]







[illegible]



































































































[illegible]







[illegible]

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[4475] Train Loss: tensor(0.7521, device='cuda:0', grad_fn=<NllLossBackward>)
[4476] Train Loss: tensor(0.7810, device='cuda:0', grad_fn=<NllLossBackward>)
[4477] Train Loss: tensor(0.7813, device='cuda:0', grad_fn=<NllLossBackward>)
[4478] Train Loss: tensor(0.7904, device='cuda:0', grad_fn=<NllLossBackward>)
[4479] Train Loss: tensor(0.7665, device='cuda:0', grad_fn=<NllLossBackward>)
[4480] Train Loss: tensor(0.7870, device='cuda:0', grad_fn=<NllLossBackward>)
[4481] Train Loss: tensor(0.7634, device='cuda:0', grad_fn=<NllLossBackward>)
[4482] Train Loss: tensor(0.7673, device='cuda:0', grad_fn=<NllLossBackward>)
[4483] Train Loss: tensor(0.7800, device='cuda:0', grad_fn=<NllLossBackward>)
[4484] Train Loss: tensor(0.7599, device='cuda:0', grad_fn=<NllLossBackward>)
[4485] Train Loss: tensor(0.7422, device='cuda:0', grad_fn=<NllLossBackward>)
[4486] Train Loss: tensor(0.7995, device='cuda:0', grad_fn=<NllLossBackward>)
[4487] Train Loss: tensor(0.7322, device='cuda:0', grad_fn=<NllLossBackward>)
[4488] Train Loss: tensor(0.7900, device='cuda:0', grad_fn=<NllLossBackward>)
[4489] Train Loss: tensor(0.7412, device='cuda:0', grad_fn=<NllLossBackward>)
[4490] Train Loss: tensor(0.7988, device='cuda:0', grad_fn=<NllLossBackward>)
[4491] Train Loss: tensor(0.7631, device='cuda:0', grad_fn=<NllLossBackward>)
[4492] Train Loss: tensor(0.8026, device='cuda:0', grad_fn=<NllLossBackward>)
[4493] Train Loss: tensor(0.7828, device='cuda:0', grad_fn=<NllLossBackward>)
[4494] Train Loss: tensor(0.7935, device='cuda:0', grad_fn=<NllLossBackward>)
[4495] Train Loss: tensor(0.8258, device='cuda:0', grad_fn=<NllLossBackward>)
[4496] Train Loss: tensor(0.7904, device='cuda:0', grad_fn=<NllLossBackward>)
[4497] Train Loss: tensor(0.7734, device='cuda:0', grad_fn=<NllLossBackward>)
[4498] Train Loss: tensor(0.8087, device='cuda:0', grad_fn=<NllLossBackward>)
[4499] Train Loss: tensor(0.7947, device='cuda:0', grad_fn=<NllLossBackward>)
[4500] Train Loss: tensor(0.7921, device='cuda:0', grad_fn=<NllLossBackward>)
[4501] Train Loss: tensor(0.7504, device='cuda:0', grad_fn=<NllLossBackward>)
[4502] Train Loss: tensor(0.7573, device='cuda:0', grad_fn=<NllLossBackward>)
[4503] Train Loss: tensor(0.7691, device='cuda:0', grad_fn=<NllLossBackward>)
[4504] Train Loss: tensor(0.7818, device='cuda:0', grad_fn=<NllLossBackward>)
[4505] Train Loss: tensor(0.7562, device='cuda:0', grad_fn=<NllLossBackward>)
[4506] Train Loss: tensor(0.7502, device='cuda:0', grad_fn=<NllLossBackward>)
[4507] Train Loss: tensor(0.7592, device='cuda:0', grad_fn=<NllLossBackward>)
[4508] Train Loss: tensor(0.7567, device='cuda:0', grad_fn=<NllLossBackward>)
[4509] Train Loss: tensor(0.7850, device='cuda:0', grad_fn=<NllLossBackward>)
[4510] Train Loss: tensor(0.8003, device='cuda:0', grad_fn=<NllLossBackward>)
[4511] Train Loss: tensor(0.7955, device='cuda:0', grad_fn=<NllLossBackward>)
Training Loss: 0.787917179801891 Time: 2449.2736966609955 s
Training Accuracy: 75.91425036707669 %
[0] Valid Loss: tensor(0.7497, device='cuda:0')
[1] Valid Loss: tensor(0.9172, device='cuda:0')
[2] Valid Loss: tensor(0.7370, device='cuda:0')
[3] Valid Loss: tensor(0.6501, device='cuda:0')
[4] Valid Loss: tensor(0.7505, device='cuda:0')
[5] Valid Loss: tensor(0.7616, device='cuda:0')
[6] Valid Loss: tensor(0.7708, device='cuda:0')
[7] Valid Loss: tensor(0.8945, device='cuda:0')
[8] Valid Loss: tensor(0.8245, device='cuda:0')

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[9] Valid Loss: tensor(0.8503, device='cuda:0')  
[10] Valid Loss: tensor(0.7246, device='cuda:0')  
[11] Valid Loss: tensor(0.7190, device='cuda:0')  
[12] Valid Loss: tensor(1.1533, device='cuda:0')  
[13] Valid Loss: tensor(1.0036, device='cuda:0')  
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[19] Valid Loss: tensor(0.6707, device='cuda:0')  
[20] Valid Loss: tensor(0.7240, device='cuda:0')  
[21] Valid Loss: tensor(0.6196, device='cuda:0')  
[22] Valid Loss: tensor(0.6095, device='cuda:0')  
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[340] Valid Loss: tensor(0.7667, device='cuda:0')  
[341] Valid Loss: tensor(0.8550, device='cuda:0')  
[342] Valid Loss: tensor(0.9495, device='cuda:0')  
[343] Valid Loss: tensor(0.8126, device='cuda:0')  
[344] Valid Loss: tensor(0.6858, device='cuda:0')

[345] Valid Loss: tensor(0.5977, device='cuda:0')  
[346] Valid Loss: tensor(0.7449, device='cuda:0')  
[347] Valid Loss: tensor(0.8741, device='cuda:0')  
[348] Valid Loss: tensor(0.7394, device='cuda:0')  
[349] Valid Loss: tensor(0.7363, device='cuda:0')  
[350] Valid Loss: tensor(0.7653, device='cuda:0')  
[351] Valid Loss: tensor(0.8838, device='cuda:0')  
[352] Valid Loss: tensor(0.6605, device='cuda:0')  
[353] Valid Loss: tensor(0.7875, device='cuda:0')  
[354] Valid Loss: tensor(0.9628, device='cuda:0')  
[355] Valid Loss: tensor(0.5571, device='cuda:0')  
[356] Valid Loss: tensor(0.7140, device='cuda:0')  
[357] Valid Loss: tensor(0.8446, device='cuda:0')  
[358] Valid Loss: tensor(0.7066, device='cuda:0')  
[359] Valid Loss: tensor(0.8179, device='cuda:0')  
[360] Valid Loss: tensor(0.7471, device='cuda:0')  
[361] Valid Loss: tensor(0.7714, device='cuda:0')  
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[363] Valid Loss: tensor(0.8036, device='cuda:0')  
[364] Valid Loss: tensor(0.9337, device='cuda:0')  
[365] Valid Loss: tensor(0.7191, device='cuda:0')  
[366] Valid Loss: tensor(0.7156, device='cuda:0')  
[367] Valid Loss: tensor(0.8202, device='cuda:0')  
[368] Valid Loss: tensor(0.8796, device='cuda:0')  
[369] Valid Loss: tensor(0.7604, device='cuda:0')  
[370] Valid Loss: tensor(0.6504, device='cuda:0')  
[371] Valid Loss: tensor(0.6564, device='cuda:0')  
[372] Valid Loss: tensor(0.8384, device='cuda:0')  
[373] Valid Loss: tensor(0.5738, device='cuda:0')  
[374] Valid Loss: tensor(0.7391, device='cuda:0')  
[375] Valid Loss: tensor(0.8433, device='cuda:0')  
[376] Valid Loss: tensor(0.6741, device='cuda:0')  
[377] Valid Loss: tensor(0.9777, device='cuda:0')  
[378] Valid Loss: tensor(0.6837, device='cuda:0')  
[379] Valid Loss: tensor(0.8507, device='cuda:0')  
[380] Valid Loss: tensor(1.0793, device='cuda:0')

Testing Loss: 0.7788032918308038

Testing Accuaracy: 75.91730129174238 %

Epoch Number: 4

[0] Train Loss: tensor(0.7501, device='cuda:0', grad\_fn=<NllLossBackward>)  
[1] Train Loss: tensor(0.7890, device='cuda:0', grad\_fn=<NllLossBackward>)  
[2] Train Loss: tensor(0.7635, device='cuda:0', grad\_fn=<NllLossBackward>)  
[3] Train Loss: tensor(0.7113, device='cuda:0', grad\_fn=<NllLossBackward>)  
[4] Train Loss: tensor(0.7306, device='cuda:0', grad\_fn=<NllLossBackward>)  
[5] Train Loss: tensor(0.7938, device='cuda:0', grad\_fn=<NllLossBackward>)  
[6] Train Loss: tensor(0.7737, device='cuda:0', grad\_fn=<NllLossBackward>)  
[7] Train Loss: tensor(0.7744, device='cuda:0', grad\_fn=<NllLossBackward>)  
[8] Train Loss: tensor(0.7724, device='cuda:0', grad\_fn=<NllLossBackward>)















[illegible]















































[illegible]













































[illegible]





[illegible]



















[illegible]































[illegible]

[illegible]

[illegible]





[illegible]

[illegible]







[illegible]















[illegible]





[illegible]

```
[4473] Train Loss: tensor(0.7394, device='cuda:0', grad_fn=<NllLossBackward>)
[4474] Train Loss: tensor(0.7528, device='cuda:0', grad_fn=<NllLossBackward>)
[4475] Train Loss: tensor(0.7444, device='cuda:0', grad_fn=<NllLossBackward>)
[4476] Train Loss: tensor(0.7206, device='cuda:0', grad_fn=<NllLossBackward>)
[4477] Train Loss: tensor(0.7722, device='cuda:0', grad_fn=<NllLossBackward>)
[4478] Train Loss: tensor(0.7345, device='cuda:0', grad_fn=<NllLossBackward>)
[4479] Train Loss: tensor(0.7483, device='cuda:0', grad_fn=<NllLossBackward>)
[4480] Train Loss: tensor(0.7665, device='cuda:0', grad_fn=<NllLossBackward>)
[4481] Train Loss: tensor(0.8187, device='cuda:0', grad_fn=<NllLossBackward>)
[4482] Train Loss: tensor(0.7722, device='cuda:0', grad_fn=<NllLossBackward>)
[4483] Train Loss: tensor(0.7424, device='cuda:0', grad_fn=<NllLossBackward>)
[4484] Train Loss: tensor(0.7339, device='cuda:0', grad_fn=<NllLossBackward>)
[4485] Train Loss: tensor(0.7184, device='cuda:0', grad_fn=<NllLossBackward>)
[4486] Train Loss: tensor(0.7748, device='cuda:0', grad_fn=<NllLossBackward>)
[4487] Train Loss: tensor(0.7725, device='cuda:0', grad_fn=<NllLossBackward>)
[4488] Train Loss: tensor(0.7574, device='cuda:0', grad_fn=<NllLossBackward>)
[4489] Train Loss: tensor(0.7528, device='cuda:0', grad_fn=<NllLossBackward>)
[4490] Train Loss: tensor(0.7516, device='cuda:0', grad_fn=<NllLossBackward>)
[4491] Train Loss: tensor(0.7717, device='cuda:0', grad_fn=<NllLossBackward>)
[4492] Train Loss: tensor(0.7564, device='cuda:0', grad_fn=<NllLossBackward>)
[4493] Train Loss: tensor(0.7330, device='cuda:0', grad_fn=<NllLossBackward>)
[4494] Train Loss: tensor(0.7514, device='cuda:0', grad_fn=<NllLossBackward>)
[4495] Train Loss: tensor(0.7804, device='cuda:0', grad_fn=<NllLossBackward>)
[4496] Train Loss: tensor(0.7574, device='cuda:0', grad_fn=<NllLossBackward>)
[4497] Train Loss: tensor(0.7463, device='cuda:0', grad_fn=<NllLossBackward>)
[4498] Train Loss: tensor(0.7668, device='cuda:0', grad_fn=<NllLossBackward>)
[4499] Train Loss: tensor(0.7455, device='cuda:0', grad_fn=<NllLossBackward>)
[4500] Train Loss: tensor(0.7370, device='cuda:0', grad_fn=<NllLossBackward>)
[4501] Train Loss: tensor(0.7963, device='cuda:0', grad_fn=<NllLossBackward>)
[4502] Train Loss: tensor(0.7478, device='cuda:0', grad_fn=<NllLossBackward>)
[4503] Train Loss: tensor(0.7900, device='cuda:0', grad_fn=<NllLossBackward>)
[4504] Train Loss: tensor(0.7754, device='cuda:0', grad_fn=<NllLossBackward>)
[4505] Train Loss: tensor(0.7297, device='cuda:0', grad_fn=<NllLossBackward>)
[4506] Train Loss: tensor(0.8000, device='cuda:0', grad_fn=<NllLossBackward>)
[4507] Train Loss: tensor(0.7406, device='cuda:0', grad_fn=<NllLossBackward>)
[4508] Train Loss: tensor(0.7546, device='cuda:0', grad_fn=<NllLossBackward>)
[4509] Train Loss: tensor(0.7647, device='cuda:0', grad_fn=<NllLossBackward>)
[4510] Train Loss: tensor(0.7619, device='cuda:0', grad_fn=<NllLossBackward>)
[4511] Train Loss: tensor(0.7554, device='cuda:0', grad_fn=<NllLossBackward>)
```

Training Loss: 0.7603523143375597 Time: 2493.4964122772217 s

Training Accuaracy: 76.68655611944537 %

```
[0] Valid Loss: tensor(0.7201, device='cuda:0')
[1] Valid Loss: tensor(0.8828, device='cuda:0')
[2] Valid Loss: tensor(0.7082, device='cuda:0')
[3] Valid Loss: tensor(0.6290, device='cuda:0')
[4] Valid Loss: tensor(0.7511, device='cuda:0')
[5] Valid Loss: tensor(0.7353, device='cuda:0')
[6] Valid Loss: tensor(0.7437, device='cuda:0')
```

[7] Valid Loss: tensor(0.8782, device='cuda:0')  
[8] Valid Loss: tensor(0.8083, device='cuda:0')  
[9] Valid Loss: tensor(0.8385, device='cuda:0')  
[10] Valid Loss: tensor(0.7014, device='cuda:0')  
[11] Valid Loss: tensor(0.6873, device='cuda:0')  
[12] Valid Loss: tensor(1.1374, device='cuda:0')  
[13] Valid Loss: tensor(1.0091, device='cuda:0')  
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[54] Valid Loss: tensor(0.6220, device='cuda:0')

[55] Valid Loss: tensor(0.5916, device='cuda:0')  
[56] Valid Loss: tensor(0.8975, device='cuda:0')  
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[202] Valid Loss: tensor(0.6754, device='cuda:0')  
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[205] Valid Loss: tensor(0.8664, device='cuda:0')  
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[232] Valid Loss: tensor(0.6192, device='cuda:0')  
[233] Valid Loss: tensor(0.7069, device='cuda:0')  
[234] Valid Loss: tensor(0.6326, device='cuda:0')  
[235] Valid Loss: tensor(0.6239, device='cuda:0')  
[236] Valid Loss: tensor(0.7880, device='cuda:0')  
[237] Valid Loss: tensor(0.8174, device='cuda:0')  
[238] Valid Loss: tensor(0.5573, device='cuda:0')  
[239] Valid Loss: tensor(0.8340, device='cuda:0')  
[240] Valid Loss: tensor(0.7343, device='cuda:0')  
[241] Valid Loss: tensor(0.6607, device='cuda:0')  
[242] Valid Loss: tensor(0.5628, device='cuda:0')  
[243] Valid Loss: tensor(1.1722, device='cuda:0')  
[244] Valid Loss: tensor(0.8159, device='cuda:0')  
[245] Valid Loss: tensor(0.7209, device='cuda:0')  
[246] Valid Loss: tensor(0.6717, device='cuda:0')

[247] Valid Loss: tensor(0.7192, device='cuda:0')  
[248] Valid Loss: tensor(0.9559, device='cuda:0')  
[249] Valid Loss: tensor(0.7331, device='cuda:0')  
[250] Valid Loss: tensor(0.7889, device='cuda:0')  
[251] Valid Loss: tensor(0.8241, device='cuda:0')  
[252] Valid Loss: tensor(0.6245, device='cuda:0')  
[253] Valid Loss: tensor(0.6568, device='cuda:0')  
[254] Valid Loss: tensor(0.6530, device='cuda:0')  
[255] Valid Loss: tensor(0.8010, device='cuda:0')  
[256] Valid Loss: tensor(0.8329, device='cuda:0')  
[257] Valid Loss: tensor(0.6991, device='cuda:0')  
[258] Valid Loss: tensor(0.8822, device='cuda:0')  
[259] Valid Loss: tensor(0.7479, device='cuda:0')  
[260] Valid Loss: tensor(0.9449, device='cuda:0')  
[261] Valid Loss: tensor(0.7838, device='cuda:0')  
[262] Valid Loss: tensor(0.9341, device='cuda:0')  
[263] Valid Loss: tensor(0.9032, device='cuda:0')  
[264] Valid Loss: tensor(0.8424, device='cuda:0')  
[265] Valid Loss: tensor(0.8494, device='cuda:0')  
[266] Valid Loss: tensor(0.7402, device='cuda:0')  
[267] Valid Loss: tensor(0.7464, device='cuda:0')  
[268] Valid Loss: tensor(0.7215, device='cuda:0')  
[269] Valid Loss: tensor(0.7024, device='cuda:0')  
[270] Valid Loss: tensor(0.6383, device='cuda:0')  
[271] Valid Loss: tensor(0.9878, device='cuda:0')  
[272] Valid Loss: tensor(0.7511, device='cuda:0')  
[273] Valid Loss: tensor(0.8912, device='cuda:0')  
[274] Valid Loss: tensor(0.7351, device='cuda:0')  
[275] Valid Loss: tensor(0.7610, device='cuda:0')  
[276] Valid Loss: tensor(0.6755, device='cuda:0')  
[277] Valid Loss: tensor(0.6648, device='cuda:0')  
[278] Valid Loss: tensor(0.9378, device='cuda:0')  
[279] Valid Loss: tensor(0.8309, device='cuda:0')  
[280] Valid Loss: tensor(0.9258, device='cuda:0')  
[281] Valid Loss: tensor(0.6893, device='cuda:0')  
[282] Valid Loss: tensor(0.7957, device='cuda:0')  
[283] Valid Loss: tensor(0.9125, device='cuda:0')  
[284] Valid Loss: tensor(0.6916, device='cuda:0')  
[285] Valid Loss: tensor(0.6101, device='cuda:0')  
[286] Valid Loss: tensor(0.8305, device='cuda:0')  
[287] Valid Loss: tensor(0.9570, device='cuda:0')  
[288] Valid Loss: tensor(0.5727, device='cuda:0')  
[289] Valid Loss: tensor(0.7987, device='cuda:0')  
[290] Valid Loss: tensor(0.6267, device='cuda:0')  
[291] Valid Loss: tensor(0.7328, device='cuda:0')  
[292] Valid Loss: tensor(0.8627, device='cuda:0')  
[293] Valid Loss: tensor(0.6830, device='cuda:0')  
[294] Valid Loss: tensor(0.8874, device='cuda:0')

[295] Valid Loss: tensor(0.6943, device='cuda:0')  
[296] Valid Loss: tensor(0.7790, device='cuda:0')  
[297] Valid Loss: tensor(0.8235, device='cuda:0')  
[298] Valid Loss: tensor(0.6964, device='cuda:0')  
[299] Valid Loss: tensor(0.8059, device='cuda:0')  
[300] Valid Loss: tensor(0.9391, device='cuda:0')  
[301] Valid Loss: tensor(0.6156, device='cuda:0')  
[302] Valid Loss: tensor(0.5895, device='cuda:0')  
[303] Valid Loss: tensor(0.7057, device='cuda:0')  
[304] Valid Loss: tensor(0.7051, device='cuda:0')  
[305] Valid Loss: tensor(0.8043, device='cuda:0')  
[306] Valid Loss: tensor(0.7927, device='cuda:0')  
[307] Valid Loss: tensor(0.6120, device='cuda:0')  
[308] Valid Loss: tensor(0.6808, device='cuda:0')  
[309] Valid Loss: tensor(0.7156, device='cuda:0')  
[310] Valid Loss: tensor(0.7352, device='cuda:0')  
[311] Valid Loss: tensor(0.6449, device='cuda:0')  
[312] Valid Loss: tensor(0.6497, device='cuda:0')  
[313] Valid Loss: tensor(0.7458, device='cuda:0')  
[314] Valid Loss: tensor(0.7307, device='cuda:0')  
[315] Valid Loss: tensor(1.0275, device='cuda:0')  
[316] Valid Loss: tensor(0.8549, device='cuda:0')  
[317] Valid Loss: tensor(0.7431, device='cuda:0')  
[318] Valid Loss: tensor(0.7117, device='cuda:0')  
[319] Valid Loss: tensor(0.6954, device='cuda:0')  
[320] Valid Loss: tensor(0.6961, device='cuda:0')  
[321] Valid Loss: tensor(0.7161, device='cuda:0')  
[322] Valid Loss: tensor(0.6512, device='cuda:0')  
[323] Valid Loss: tensor(0.8363, device='cuda:0')  
[324] Valid Loss: tensor(0.7847, device='cuda:0')  
[325] Valid Loss: tensor(0.6529, device='cuda:0')  
[326] Valid Loss: tensor(0.7337, device='cuda:0')  
[327] Valid Loss: tensor(0.4898, device='cuda:0')  
[328] Valid Loss: tensor(0.6979, device='cuda:0')  
[329] Valid Loss: tensor(0.8222, device='cuda:0')  
[330] Valid Loss: tensor(0.6287, device='cuda:0')  
[331] Valid Loss: tensor(0.9318, device='cuda:0')  
[332] Valid Loss: tensor(0.6590, device='cuda:0')  
[333] Valid Loss: tensor(0.6012, device='cuda:0')  
[334] Valid Loss: tensor(0.6467, device='cuda:0')  
[335] Valid Loss: tensor(0.7350, device='cuda:0')  
[336] Valid Loss: tensor(0.8214, device='cuda:0')  
[337] Valid Loss: tensor(0.9181, device='cuda:0')  
[338] Valid Loss: tensor(0.7851, device='cuda:0')  
[339] Valid Loss: tensor(0.7408, device='cuda:0')  
[340] Valid Loss: tensor(0.7720, device='cuda:0')  
[341] Valid Loss: tensor(0.8616, device='cuda:0')  
[342] Valid Loss: tensor(0.9305, device='cuda:0')

[343] Valid Loss: tensor(0.7693, device='cuda:0')  
[344] Valid Loss: tensor(0.6737, device='cuda:0')  
[345] Valid Loss: tensor(0.5836, device='cuda:0')  
[346] Valid Loss: tensor(0.7527, device='cuda:0')  
[347] Valid Loss: tensor(0.8507, device='cuda:0')  
[348] Valid Loss: tensor(0.7081, device='cuda:0')  
[349] Valid Loss: tensor(0.6986, device='cuda:0')  
[350] Valid Loss: tensor(0.7354, device='cuda:0')  
[351] Valid Loss: tensor(0.8401, device='cuda:0')  
[352] Valid Loss: tensor(0.6579, device='cuda:0')  
[353] Valid Loss: tensor(0.7476, device='cuda:0')  
[354] Valid Loss: tensor(0.9532, device='cuda:0')  
[355] Valid Loss: tensor(0.5627, device='cuda:0')  
[356] Valid Loss: tensor(0.6835, device='cuda:0')  
[357] Valid Loss: tensor(0.8502, device='cuda:0')  
[358] Valid Loss: tensor(0.7147, device='cuda:0')  
[359] Valid Loss: tensor(0.7975, device='cuda:0')  
[360] Valid Loss: tensor(0.7351, device='cuda:0')  
[361] Valid Loss: tensor(0.7720, device='cuda:0')  
[362] Valid Loss: tensor(0.7323, device='cuda:0')  
[363] Valid Loss: tensor(0.8095, device='cuda:0')  
[364] Valid Loss: tensor(0.9244, device='cuda:0')  
[365] Valid Loss: tensor(0.7067, device='cuda:0')  
[366] Valid Loss: tensor(0.7053, device='cuda:0')  
[367] Valid Loss: tensor(0.8131, device='cuda:0')  
[368] Valid Loss: tensor(0.8520, device='cuda:0')  
[369] Valid Loss: tensor(0.7444, device='cuda:0')  
[370] Valid Loss: tensor(0.6423, device='cuda:0')  
[371] Valid Loss: tensor(0.6466, device='cuda:0')  
[372] Valid Loss: tensor(0.8415, device='cuda:0')  
[373] Valid Loss: tensor(0.5776, device='cuda:0')  
[374] Valid Loss: tensor(0.7553, device='cuda:0')  
[375] Valid Loss: tensor(0.8235, device='cuda:0')  
[376] Valid Loss: tensor(0.6811, device='cuda:0')  
[377] Valid Loss: tensor(0.9614, device='cuda:0')  
[378] Valid Loss: tensor(0.6614, device='cuda:0')  
[379] Valid Loss: tensor(0.8379, device='cuda:0')  
[380] Valid Loss: tensor(1.1041, device='cuda:0')

Testing Loss: 0.7667813588940878

Testing Accuaracy: 76.32896039080033 %

Epoch Number: 5

[0] Train Loss: tensor(0.7552, device='cuda:0', grad\_fn=<NllLossBackward>)  
[1] Train Loss: tensor(0.7368, device='cuda:0', grad\_fn=<NllLossBackward>)  
[2] Train Loss: tensor(0.7532, device='cuda:0', grad\_fn=<NllLossBackward>)  
[3] Train Loss: tensor(0.7306, device='cuda:0', grad\_fn=<NllLossBackward>)  
[4] Train Loss: tensor(0.7283, device='cuda:0', grad\_fn=<NllLossBackward>)  
[5] Train Loss: tensor(0.7167, device='cuda:0', grad\_fn=<NllLossBackward>)  
[6] Train Loss: tensor(0.7715, device='cuda:0', grad\_fn=<NllLossBackward>)











[illegible]









[illegible]























[illegible]







[illegible]































































[illegible]



[illegible]









[illegible]









[illegible]

[illegible]

















[illegible]







































[illegible]









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[4471] Train Loss: tensor(0.7372, device='cuda:0', grad_fn=<NllLossBackward>)
[4472] Train Loss: tensor(0.7281, device='cuda:0', grad_fn=<NllLossBackward>)
[4473] Train Loss: tensor(0.7078, device='cuda:0', grad_fn=<NllLossBackward>)
[4474] Train Loss: tensor(0.7428, device='cuda:0', grad_fn=<NllLossBackward>)
[4475] Train Loss: tensor(0.7066, device='cuda:0', grad_fn=<NllLossBackward>)
[4476] Train Loss: tensor(0.7275, device='cuda:0', grad_fn=<NllLossBackward>)
[4477] Train Loss: tensor(0.7359, device='cuda:0', grad_fn=<NllLossBackward>)
[4478] Train Loss: tensor(0.6946, device='cuda:0', grad_fn=<NllLossBackward>)
[4479] Train Loss: tensor(0.7348, device='cuda:0', grad_fn=<NllLossBackward>)
[4480] Train Loss: tensor(0.7309, device='cuda:0', grad_fn=<NllLossBackward>)
[4481] Train Loss: tensor(0.7206, device='cuda:0', grad_fn=<NllLossBackward>)
[4482] Train Loss: tensor(0.7339, device='cuda:0', grad_fn=<NllLossBackward>)
[4483] Train Loss: tensor(0.7488, device='cuda:0', grad_fn=<NllLossBackward>)
[4484] Train Loss: tensor(0.7230, device='cuda:0', grad_fn=<NllLossBackward>)
[4485] Train Loss: tensor(0.7295, device='cuda:0', grad_fn=<NllLossBackward>)
[4486] Train Loss: tensor(0.7347, device='cuda:0', grad_fn=<NllLossBackward>)
[4487] Train Loss: tensor(0.7593, device='cuda:0', grad_fn=<NllLossBackward>)
[4488] Train Loss: tensor(0.6952, device='cuda:0', grad_fn=<NllLossBackward>)
[4489] Train Loss: tensor(0.7354, device='cuda:0', grad_fn=<NllLossBackward>)
[4490] Train Loss: tensor(0.7365, device='cuda:0', grad_fn=<NllLossBackward>)
[4491] Train Loss: tensor(0.7429, device='cuda:0', grad_fn=<NllLossBackward>)
[4492] Train Loss: tensor(0.7255, device='cuda:0', grad_fn=<NllLossBackward>)
[4493] Train Loss: tensor(0.7491, device='cuda:0', grad_fn=<NllLossBackward>)
[4494] Train Loss: tensor(0.7629, device='cuda:0', grad_fn=<NllLossBackward>)
[4495] Train Loss: tensor(0.7400, device='cuda:0', grad_fn=<NllLossBackward>)
[4496] Train Loss: tensor(0.7655, device='cuda:0', grad_fn=<NllLossBackward>)
[4497] Train Loss: tensor(0.7137, device='cuda:0', grad_fn=<NllLossBackward>)
[4498] Train Loss: tensor(0.7388, device='cuda:0', grad_fn=<NllLossBackward>)
[4499] Train Loss: tensor(0.7435, device='cuda:0', grad_fn=<NllLossBackward>)
[4500] Train Loss: tensor(0.7174, device='cuda:0', grad_fn=<NllLossBackward>)
[4501] Train Loss: tensor(0.7459, device='cuda:0', grad_fn=<NllLossBackward>)
[4502] Train Loss: tensor(0.7070, device='cuda:0', grad_fn=<NllLossBackward>)
[4503] Train Loss: tensor(0.7288, device='cuda:0', grad_fn=<NllLossBackward>)
[4504] Train Loss: tensor(0.7377, device='cuda:0', grad_fn=<NllLossBackward>)
[4505] Train Loss: tensor(0.7385, device='cuda:0', grad_fn=<NllLossBackward>)
[4506] Train Loss: tensor(0.7128, device='cuda:0', grad_fn=<NllLossBackward>)
[4507] Train Loss: tensor(0.7257, device='cuda:0', grad_fn=<NllLossBackward>)
[4508] Train Loss: tensor(0.7214, device='cuda:0', grad_fn=<NllLossBackward>)
[4509] Train Loss: tensor(0.7304, device='cuda:0', grad_fn=<NllLossBackward>)
[4510] Train Loss: tensor(0.7476, device='cuda:0', grad_fn=<NllLossBackward>)
[4511] Train Loss: tensor(0.7599, device='cuda:0', grad_fn=<NllLossBackward>)
Training Loss: 0.739794924577817 Time: 2444.287858724594 s
Training Accuaracy: 77.27410066212322 %
[0] Valid Loss: tensor(0.7129, device='cuda:0')
[1] Valid Loss: tensor(0.8671, device='cuda:0')
[2] Valid Loss: tensor(0.7162, device='cuda:0')
[3] Valid Loss: tensor(0.6360, device='cuda:0')
[4] Valid Loss: tensor(0.7088, device='cuda:0')

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[5] Valid Loss: tensor(0.7213, device='cuda:0')  
[6] Valid Loss: tensor(0.7400, device='cuda:0')  
[7] Valid Loss: tensor(0.8393, device='cuda:0')  
[8] Valid Loss: tensor(0.8005, device='cuda:0')  
[9] Valid Loss: tensor(0.8303, device='cuda:0')  
[10] Valid Loss: tensor(0.6940, device='cuda:0')  
[11] Valid Loss: tensor(0.6670, device='cuda:0')  
[12] Valid Loss: tensor(1.1169, device='cuda:0')  
[13] Valid Loss: tensor(0.9715, device='cuda:0')  
[14] Valid Loss: tensor(0.6325, device='cuda:0')  
[15] Valid Loss: tensor(0.7555, device='cuda:0')  
[16] Valid Loss: tensor(0.6528, device='cuda:0')  
[17] Valid Loss: tensor(0.8018, device='cuda:0')  
[18] Valid Loss: tensor(0.6871, device='cuda:0')  
[19] Valid Loss: tensor(0.6255, device='cuda:0')  
[20] Valid Loss: tensor(0.6953, device='cuda:0')  
[21] Valid Loss: tensor(0.6055, device='cuda:0')  
[22] Valid Loss: tensor(0.5874, device='cuda:0')  
[23] Valid Loss: tensor(0.8447, device='cuda:0')  
[24] Valid Loss: tensor(0.7506, device='cuda:0')  
[25] Valid Loss: tensor(0.9666, device='cuda:0')  
[26] Valid Loss: tensor(0.5451, device='cuda:0')  
[27] Valid Loss: tensor(0.9019, device='cuda:0')  
[28] Valid Loss: tensor(0.6962, device='cuda:0')  
[29] Valid Loss: tensor(0.7277, device='cuda:0')  
[30] Valid Loss: tensor(0.6360, device='cuda:0')  
[31] Valid Loss: tensor(0.7416, device='cuda:0')  
[32] Valid Loss: tensor(0.8395, device='cuda:0')  
[33] Valid Loss: tensor(0.7989, device='cuda:0')  
[34] Valid Loss: tensor(0.8063, device='cuda:0')  
[35] Valid Loss: tensor(0.8835, device='cuda:0')  
[36] Valid Loss: tensor(0.6911, device='cuda:0')  
[37] Valid Loss: tensor(1.0372, device='cuda:0')  
[38] Valid Loss: tensor(0.8470, device='cuda:0')  
[39] Valid Loss: tensor(0.6872, device='cuda:0')  
[40] Valid Loss: tensor(0.7810, device='cuda:0')  
[41] Valid Loss: tensor(0.8511, device='cuda:0')  
[42] Valid Loss: tensor(0.7833, device='cuda:0')  
[43] Valid Loss: tensor(0.5581, device='cuda:0')  
[44] Valid Loss: tensor(0.6957, device='cuda:0')  
[45] Valid Loss: tensor(0.5998, device='cuda:0')  
[46] Valid Loss: tensor(0.8794, device='cuda:0')  
[47] Valid Loss: tensor(0.8010, device='cuda:0')  
[48] Valid Loss: tensor(0.6804, device='cuda:0')  
[49] Valid Loss: tensor(0.7679, device='cuda:0')  
[50] Valid Loss: tensor(0.7049, device='cuda:0')  
[51] Valid Loss: tensor(0.6746, device='cuda:0')  
[52] Valid Loss: tensor(0.5993, device='cuda:0')

[53] Valid Loss: tensor(0.9024, device='cuda:0')  
[54] Valid Loss: tensor(0.6261, device='cuda:0')  
[55] Valid Loss: tensor(0.5767, device='cuda:0')  
[56] Valid Loss: tensor(0.8692, device='cuda:0')  
[57] Valid Loss: tensor(0.8408, device='cuda:0')  
[58] Valid Loss: tensor(0.7741, device='cuda:0')  
[59] Valid Loss: tensor(0.6777, device='cuda:0')  
[60] Valid Loss: tensor(1.0393, device='cuda:0')  
[61] Valid Loss: tensor(0.6938, device='cuda:0')  
[62] Valid Loss: tensor(0.8771, device='cuda:0')  
[63] Valid Loss: tensor(0.6765, device='cuda:0')  
[64] Valid Loss: tensor(0.7529, device='cuda:0')  
[65] Valid Loss: tensor(0.8842, device='cuda:0')  
[66] Valid Loss: tensor(0.7370, device='cuda:0')  
[67] Valid Loss: tensor(0.7633, device='cuda:0')  
[68] Valid Loss: tensor(0.7243, device='cuda:0')  
[69] Valid Loss: tensor(0.5883, device='cuda:0')  
[70] Valid Loss: tensor(0.5972, device='cuda:0')  
[71] Valid Loss: tensor(0.8395, device='cuda:0')  
[72] Valid Loss: tensor(0.7705, device='cuda:0')  
[73] Valid Loss: tensor(0.6986, device='cuda:0')  
[74] Valid Loss: tensor(0.7694, device='cuda:0')  
[75] Valid Loss: tensor(0.8644, device='cuda:0')  
[76] Valid Loss: tensor(0.8038, device='cuda:0')  
[77] Valid Loss: tensor(0.6990, device='cuda:0')  
[78] Valid Loss: tensor(0.7934, device='cuda:0')  
[79] Valid Loss: tensor(0.6361, device='cuda:0')  
[80] Valid Loss: tensor(0.7440, device='cuda:0')  
[81] Valid Loss: tensor(0.6288, device='cuda:0')  
[82] Valid Loss: tensor(0.8908, device='cuda:0')  
[83] Valid Loss: tensor(0.8355, device='cuda:0')  
[84] Valid Loss: tensor(0.6366, device='cuda:0')  
[85] Valid Loss: tensor(0.7402, device='cuda:0')  
[86] Valid Loss: tensor(0.7550, device='cuda:0')  
[87] Valid Loss: tensor(0.8366, device='cuda:0')  
[88] Valid Loss: tensor(0.5994, device='cuda:0')  
[89] Valid Loss: tensor(0.8064, device='cuda:0')  
[90] Valid Loss: tensor(0.9539, device='cuda:0')  
[91] Valid Loss: tensor(0.7340, device='cuda:0')  
[92] Valid Loss: tensor(0.8058, device='cuda:0')  
[93] Valid Loss: tensor(0.7911, device='cuda:0')  
[94] Valid Loss: tensor(0.8541, device='cuda:0')  
[95] Valid Loss: tensor(0.7031, device='cuda:0')  
[96] Valid Loss: tensor(0.8722, device='cuda:0')  
[97] Valid Loss: tensor(0.8082, device='cuda:0')  
[98] Valid Loss: tensor(0.8128, device='cuda:0')  
[99] Valid Loss: tensor(0.6373, device='cuda:0')  
[100] Valid Loss: tensor(0.7539, device='cuda:0')

[101] Valid Loss: tensor(0.7204, device='cuda:0')  
[102] Valid Loss: tensor(0.9183, device='cuda:0')  
[103] Valid Loss: tensor(0.8988, device='cuda:0')  
[104] Valid Loss: tensor(0.6795, device='cuda:0')  
[105] Valid Loss: tensor(0.6864, device='cuda:0')  
[106] Valid Loss: tensor(0.6121, device='cuda:0')  
[107] Valid Loss: tensor(0.7837, device='cuda:0')  
[108] Valid Loss: tensor(0.8503, device='cuda:0')  
[109] Valid Loss: tensor(0.7692, device='cuda:0')  
[110] Valid Loss: tensor(0.8151, device='cuda:0')  
[111] Valid Loss: tensor(0.7713, device='cuda:0')  
[112] Valid Loss: tensor(0.8201, device='cuda:0')  
[113] Valid Loss: tensor(0.7880, device='cuda:0')  
[114] Valid Loss: tensor(0.7474, device='cuda:0')  
[115] Valid Loss: tensor(0.8294, device='cuda:0')  
[116] Valid Loss: tensor(0.8289, device='cuda:0')  
[117] Valid Loss: tensor(0.8558, device='cuda:0')  
[118] Valid Loss: tensor(0.6921, device='cuda:0')  
[119] Valid Loss: tensor(0.6233, device='cuda:0')  
[120] Valid Loss: tensor(0.9840, device='cuda:0')  
[121] Valid Loss: tensor(0.6897, device='cuda:0')  
[122] Valid Loss: tensor(0.7382, device='cuda:0')  
[123] Valid Loss: tensor(0.6818, device='cuda:0')  
[124] Valid Loss: tensor(0.9084, device='cuda:0')  
[125] Valid Loss: tensor(0.9539, device='cuda:0')  
[126] Valid Loss: tensor(0.5962, device='cuda:0')  
[127] Valid Loss: tensor(0.6333, device='cuda:0')  
[128] Valid Loss: tensor(0.8640, device='cuda:0')  
[129] Valid Loss: tensor(0.6974, device='cuda:0')  
[130] Valid Loss: tensor(0.8348, device='cuda:0')  
[131] Valid Loss: tensor(0.6950, device='cuda:0')  
[132] Valid Loss: tensor(0.7387, device='cuda:0')  
[133] Valid Loss: tensor(0.7876, device='cuda:0')  
[134] Valid Loss: tensor(0.6767, device='cuda:0')  
[135] Valid Loss: tensor(0.5935, device='cuda:0')  
[136] Valid Loss: tensor(0.6330, device='cuda:0')  
[137] Valid Loss: tensor(0.9501, device='cuda:0')  
[138] Valid Loss: tensor(0.8530, device='cuda:0')  
[139] Valid Loss: tensor(1.0611, device='cuda:0')  
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[148] Valid Loss: tensor(0.7051, device='cuda:0')

[149] Valid Loss: tensor(0.7807, device='cuda:0')  
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[172] Valid Loss: tensor(0.8059, device='cuda:0')  
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[188] Valid Loss: tensor(0.9109, device='cuda:0')  
[189] Valid Loss: tensor(0.7357, device='cuda:0')  
[190] Valid Loss: tensor(0.7652, device='cuda:0')  
[191] Valid Loss: tensor(0.6264, device='cuda:0')  
[192] Valid Loss: tensor(1.0037, device='cuda:0')  
[193] Valid Loss: tensor(0.7605, device='cuda:0')  
[194] Valid Loss: tensor(0.8372, device='cuda:0')  
[195] Valid Loss: tensor(0.8654, device='cuda:0')  
[196] Valid Loss: tensor(0.6264, device='cuda:0')

[197] Valid Loss: tensor(0.7811, device='cuda:0')  
[198] Valid Loss: tensor(0.7430, device='cuda:0')  
[199] Valid Loss: tensor(0.8121, device='cuda:0')  
[200] Valid Loss: tensor(0.7428, device='cuda:0')  
[201] Valid Loss: tensor(0.7064, device='cuda:0')  
[202] Valid Loss: tensor(0.6797, device='cuda:0')  
[203] Valid Loss: tensor(0.8986, device='cuda:0')  
[204] Valid Loss: tensor(0.8504, device='cuda:0')  
[205] Valid Loss: tensor(0.8439, device='cuda:0')  
[206] Valid Loss: tensor(0.9385, device='cuda:0')  
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[218] Valid Loss: tensor(0.6059, device='cuda:0')  
[219] Valid Loss: tensor(0.7053, device='cuda:0')  
[220] Valid Loss: tensor(0.6800, device='cuda:0')  
[221] Valid Loss: tensor(0.7785, device='cuda:0')  
[222] Valid Loss: tensor(0.6041, device='cuda:0')  
[223] Valid Loss: tensor(0.7047, device='cuda:0')  
[224] Valid Loss: tensor(0.8131, device='cuda:0')  
[225] Valid Loss: tensor(0.6314, device='cuda:0')  
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[227] Valid Loss: tensor(0.6257, device='cuda:0')  
[228] Valid Loss: tensor(0.8042, device='cuda:0')  
[229] Valid Loss: tensor(0.6866, device='cuda:0')  
[230] Valid Loss: tensor(0.8008, device='cuda:0')  
[231] Valid Loss: tensor(0.6891, device='cuda:0')  
[232] Valid Loss: tensor(0.6007, device='cuda:0')  
[233] Valid Loss: tensor(0.6846, device='cuda:0')  
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[235] Valid Loss: tensor(0.6163, device='cuda:0')  
[236] Valid Loss: tensor(0.7746, device='cuda:0')  
[237] Valid Loss: tensor(0.8085, device='cuda:0')  
[238] Valid Loss: tensor(0.5534, device='cuda:0')  
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[242] Valid Loss: tensor(0.5373, device='cuda:0')  
[243] Valid Loss: tensor(1.1817, device='cuda:0')  
[244] Valid Loss: tensor(0.8160, device='cuda:0')



[245] Valid Loss: tensor(0.7026, device='cuda:0')  
[246] Valid Loss: tensor(0.6651, device='cuda:0')  
[247] Valid Loss: tensor(0.6955, device='cuda:0')  
[248] Valid Loss: tensor(0.9614, device='cuda:0')  
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[250] Valid Loss: tensor(0.7756, device='cuda:0')  
[251] Valid Loss: tensor(0.8314, device='cuda:0')  
[252] Valid Loss: tensor(0.6274, device='cuda:0')  
[253] Valid Loss: tensor(0.6599, device='cuda:0')  
[254] Valid Loss: tensor(0.6525, device='cuda:0')  
[255] Valid Loss: tensor(0.7953, device='cuda:0')  
[256] Valid Loss: tensor(0.8387, device='cuda:0')  
[257] Valid Loss: tensor(0.7001, device='cuda:0')  
[258] Valid Loss: tensor(0.8612, device='cuda:0')  
[259] Valid Loss: tensor(0.7382, device='cuda:0')  
[260] Valid Loss: tensor(0.9254, device='cuda:0')  
[261] Valid Loss: tensor(0.7642, device='cuda:0')  
[262] Valid Loss: tensor(0.8970, device='cuda:0')  
[263] Valid Loss: tensor(0.8647, device='cuda:0')  
[264] Valid Loss: tensor(0.8351, device='cuda:0')  
[265] Valid Loss: tensor(0.8019, device='cuda:0')  
[266] Valid Loss: tensor(0.7161, device='cuda:0')  
[267] Valid Loss: tensor(0.7272, device='cuda:0')  
[268] Valid Loss: tensor(0.7226, device='cuda:0')  
[269] Valid Loss: tensor(0.6880, device='cuda:0')  
[270] Valid Loss: tensor(0.6316, device='cuda:0')  
[271] Valid Loss: tensor(0.9798, device='cuda:0')  
[272] Valid Loss: tensor(0.7423, device='cuda:0')  
[273] Valid Loss: tensor(0.8809, device='cuda:0')  
[274] Valid Loss: tensor(0.7152, device='cuda:0')  
[275] Valid Loss: tensor(0.7520, device='cuda:0')  
[276] Valid Loss: tensor(0.6733, device='cuda:0')  
[277] Valid Loss: tensor(0.6588, device='cuda:0')  
[278] Valid Loss: tensor(0.9213, device='cuda:0')  
[279] Valid Loss: tensor(0.8140, device='cuda:0')  
[280] Valid Loss: tensor(0.8992, device='cuda:0')  
[281] Valid Loss: tensor(0.6834, device='cuda:0')  
[282] Valid Loss: tensor(0.7919, device='cuda:0')  
[283] Valid Loss: tensor(0.8813, device='cuda:0')  
[284] Valid Loss: tensor(0.6857, device='cuda:0')  
[285] Valid Loss: tensor(0.6031, device='cuda:0')  
[286] Valid Loss: tensor(0.8269, device='cuda:0')  
[287] Valid Loss: tensor(0.9359, device='cuda:0')  
[288] Valid Loss: tensor(0.5683, device='cuda:0')  
[289] Valid Loss: tensor(0.7742, device='cuda:0')  
[290] Valid Loss: tensor(0.6217, device='cuda:0')  
[291] Valid Loss: tensor(0.7270, device='cuda:0')  
[292] Valid Loss: tensor(0.8647, device='cuda:0')

[293] Valid Loss: tensor(0.6720, device='cuda:0')  
[294] Valid Loss: tensor(0.8747, device='cuda:0')  
[295] Valid Loss: tensor(0.6722, device='cuda:0')  
[296] Valid Loss: tensor(0.7751, device='cuda:0')  
[297] Valid Loss: tensor(0.8035, device='cuda:0')  
[298] Valid Loss: tensor(0.6678, device='cuda:0')  
[299] Valid Loss: tensor(0.7781, device='cuda:0')  
[300] Valid Loss: tensor(0.9372, device='cuda:0')  
[301] Valid Loss: tensor(0.6175, device='cuda:0')  
[302] Valid Loss: tensor(0.5891, device='cuda:0')  
[303] Valid Loss: tensor(0.7011, device='cuda:0')  
[304] Valid Loss: tensor(0.6636, device='cuda:0')  
[305] Valid Loss: tensor(0.7673, device='cuda:0')  
[306] Valid Loss: tensor(0.7891, device='cuda:0')  
[307] Valid Loss: tensor(0.5971, device='cuda:0')  
[308] Valid Loss: tensor(0.6616, device='cuda:0')  
[309] Valid Loss: tensor(0.7009, device='cuda:0')  
[310] Valid Loss: tensor(0.7225, device='cuda:0')  
[311] Valid Loss: tensor(0.6413, device='cuda:0')  
[312] Valid Loss: tensor(0.6205, device='cuda:0')  
[313] Valid Loss: tensor(0.7228, device='cuda:0')  
[314] Valid Loss: tensor(0.7297, device='cuda:0')  
[315] Valid Loss: tensor(1.0074, device='cuda:0')  
[316] Valid Loss: tensor(0.8469, device='cuda:0')  
[317] Valid Loss: tensor(0.7209, device='cuda:0')  
[318] Valid Loss: tensor(0.6894, device='cuda:0')  
[319] Valid Loss: tensor(0.6852, device='cuda:0')  
[320] Valid Loss: tensor(0.6831, device='cuda:0')  
[321] Valid Loss: tensor(0.6871, device='cuda:0')  
[322] Valid Loss: tensor(0.6564, device='cuda:0')  
[323] Valid Loss: tensor(0.8395, device='cuda:0')  
[324] Valid Loss: tensor(0.7666, device='cuda:0')  
[325] Valid Loss: tensor(0.6143, device='cuda:0')  
[326] Valid Loss: tensor(0.7301, device='cuda:0')  
[327] Valid Loss: tensor(0.4777, device='cuda:0')  
[328] Valid Loss: tensor(0.6855, device='cuda:0')  
[329] Valid Loss: tensor(0.8043, device='cuda:0')  
[330] Valid Loss: tensor(0.6117, device='cuda:0')  
[331] Valid Loss: tensor(0.9333, device='cuda:0')  
[332] Valid Loss: tensor(0.6352, device='cuda:0')  
[333] Valid Loss: tensor(0.6065, device='cuda:0')  
[334] Valid Loss: tensor(0.6139, device='cuda:0')  
[335] Valid Loss: tensor(0.7143, device='cuda:0')  
[336] Valid Loss: tensor(0.8009, device='cuda:0')  
[337] Valid Loss: tensor(0.8960, device='cuda:0')  
[338] Valid Loss: tensor(0.7584, device='cuda:0')  
[339] Valid Loss: tensor(0.7248, device='cuda:0')  
[340] Valid Loss: tensor(0.7539, device='cuda:0')

```

[341] Valid Loss:  tensor(0.8577, device='cuda:0')
[342] Valid Loss:  tensor(0.9103, device='cuda:0')
[343] Valid Loss:  tensor(0.7665, device='cuda:0')
[344] Valid Loss:  tensor(0.6517, device='cuda:0')
[345] Valid Loss:  tensor(0.5764, device='cuda:0')
[346] Valid Loss:  tensor(0.7350, device='cuda:0')
[347] Valid Loss:  tensor(0.8374, device='cuda:0')
[348] Valid Loss:  tensor(0.7168, device='cuda:0')
[349] Valid Loss:  tensor(0.7049, device='cuda:0')
[350] Valid Loss:  tensor(0.7357, device='cuda:0')
[351] Valid Loss:  tensor(0.8310, device='cuda:0')
[352] Valid Loss:  tensor(0.6516, device='cuda:0')
[353] Valid Loss:  tensor(0.7551, device='cuda:0')
[354] Valid Loss:  tensor(0.9384, device='cuda:0')
[355] Valid Loss:  tensor(0.5408, device='cuda:0')
[356] Valid Loss:  tensor(0.6942, device='cuda:0')
[357] Valid Loss:  tensor(0.8248, device='cuda:0')
[358] Valid Loss:  tensor(0.6909, device='cuda:0')
[359] Valid Loss:  tensor(0.7949, device='cuda:0')
[360] Valid Loss:  tensor(0.7027, device='cuda:0')
[361] Valid Loss:  tensor(0.7654, device='cuda:0')
[362] Valid Loss:  tensor(0.7430, device='cuda:0')
[363] Valid Loss:  tensor(0.7981, device='cuda:0')
[364] Valid Loss:  tensor(0.9127, device='cuda:0')
[365] Valid Loss:  tensor(0.6861, device='cuda:0')
[366] Valid Loss:  tensor(0.6959, device='cuda:0')
[367] Valid Loss:  tensor(0.8012, device='cuda:0')
[368] Valid Loss:  tensor(0.8419, device='cuda:0')
[369] Valid Loss:  tensor(0.7439, device='cuda:0')
[370] Valid Loss:  tensor(0.6021, device='cuda:0')
[371] Valid Loss:  tensor(0.6314, device='cuda:0')
[372] Valid Loss:  tensor(0.8216, device='cuda:0')
[373] Valid Loss:  tensor(0.5571, device='cuda:0')
[374] Valid Loss:  tensor(0.7110, device='cuda:0')
[375] Valid Loss:  tensor(0.7945, device='cuda:0')
[376] Valid Loss:  tensor(0.6469, device='cuda:0')
[377] Valid Loss:  tensor(0.9406, device='cuda:0')
[378] Valid Loss:  tensor(0.6534, device='cuda:0')
[379] Valid Loss:  tensor(0.7988, device='cuda:0')
[380] Valid Loss:  tensor(1.0951, device='cuda:0')

```

Testing Loss: 0.7536907086535076

Testing Accuaracy: 76.73978565248095 %

Epoch Number: 6

```

[0] Train Loss:  tensor(0.6944, device='cuda:0', grad_fn=<NllLossBackward>)
[1] Train Loss:  tensor(0.7043, device='cuda:0', grad_fn=<NllLossBackward>)
[2] Train Loss:  tensor(0.7336, device='cuda:0', grad_fn=<NllLossBackward>)
[3] Train Loss:  tensor(0.7003, device='cuda:0', grad_fn=<NllLossBackward>)
[4] Train Loss:  tensor(0.7144, device='cuda:0', grad_fn=<NllLossBackward>)

```





















[illegible]



































[illegible]





















[illegible]



































































































































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[4469] Train Loss: tensor(0.7213, device='cuda:0', grad_fn=<NllLossBackward>)
[4470] Train Loss: tensor(0.7137, device='cuda:0', grad_fn=<NllLossBackward>)
[4471] Train Loss: tensor(0.7718, device='cuda:0', grad_fn=<NllLossBackward>)
[4472] Train Loss: tensor(0.7405, device='cuda:0', grad_fn=<NllLossBackward>)
[4473] Train Loss: tensor(0.7235, device='cuda:0', grad_fn=<NllLossBackward>)
[4474] Train Loss: tensor(0.7077, device='cuda:0', grad_fn=<NllLossBackward>)
[4475] Train Loss: tensor(0.7651, device='cuda:0', grad_fn=<NllLossBackward>)
[4476] Train Loss: tensor(0.7303, device='cuda:0', grad_fn=<NllLossBackward>)
[4477] Train Loss: tensor(0.7279, device='cuda:0', grad_fn=<NllLossBackward>)
[4478] Train Loss: tensor(0.7439, device='cuda:0', grad_fn=<NllLossBackward>)
[4479] Train Loss: tensor(0.7150, device='cuda:0', grad_fn=<NllLossBackward>)
[4480] Train Loss: tensor(0.7085, device='cuda:0', grad_fn=<NllLossBackward>)
[4481] Train Loss: tensor(0.7165, device='cuda:0', grad_fn=<NllLossBackward>)
[4482] Train Loss: tensor(0.6960, device='cuda:0', grad_fn=<NllLossBackward>)
[4483] Train Loss: tensor(0.7168, device='cuda:0', grad_fn=<NllLossBackward>)
[4484] Train Loss: tensor(0.6828, device='cuda:0', grad_fn=<NllLossBackward>)
[4485] Train Loss: tensor(0.6876, device='cuda:0', grad_fn=<NllLossBackward>)
[4486] Train Loss: tensor(0.7518, device='cuda:0', grad_fn=<NllLossBackward>)
[4487] Train Loss: tensor(0.7268, device='cuda:0', grad_fn=<NllLossBackward>)
[4488] Train Loss: tensor(0.6914, device='cuda:0', grad_fn=<NllLossBackward>)
[4489] Train Loss: tensor(0.7289, device='cuda:0', grad_fn=<NllLossBackward>)
[4490] Train Loss: tensor(0.7626, device='cuda:0', grad_fn=<NllLossBackward>)
[4491] Train Loss: tensor(0.6972, device='cuda:0', grad_fn=<NllLossBackward>)
[4492] Train Loss: tensor(0.7038, device='cuda:0', grad_fn=<NllLossBackward>)
[4493] Train Loss: tensor(0.6960, device='cuda:0', grad_fn=<NllLossBackward>)
[4494] Train Loss: tensor(0.7037, device='cuda:0', grad_fn=<NllLossBackward>)
[4495] Train Loss: tensor(0.7059, device='cuda:0', grad_fn=<NllLossBackward>)
[4496] Train Loss: tensor(0.7428, device='cuda:0', grad_fn=<NllLossBackward>)
[4497] Train Loss: tensor(0.7304, device='cuda:0', grad_fn=<NllLossBackward>)
[4498] Train Loss: tensor(0.7259, device='cuda:0', grad_fn=<NllLossBackward>)
[4499] Train Loss: tensor(0.6892, device='cuda:0', grad_fn=<NllLossBackward>)
[4500] Train Loss: tensor(0.7367, device='cuda:0', grad_fn=<NllLossBackward>)
[4501] Train Loss: tensor(0.7205, device='cuda:0', grad_fn=<NllLossBackward>)
[4502] Train Loss: tensor(0.7091, device='cuda:0', grad_fn=<NllLossBackward>)
[4503] Train Loss: tensor(0.7406, device='cuda:0', grad_fn=<NllLossBackward>)
[4504] Train Loss: tensor(0.7364, device='cuda:0', grad_fn=<NllLossBackward>)
[4505] Train Loss: tensor(0.7428, device='cuda:0', grad_fn=<NllLossBackward>)
[4506] Train Loss: tensor(0.7197, device='cuda:0', grad_fn=<NllLossBackward>)
[4507] Train Loss: tensor(0.7500, device='cuda:0', grad_fn=<NllLossBackward>)
[4508] Train Loss: tensor(0.6988, device='cuda:0', grad_fn=<NllLossBackward>)
[4509] Train Loss: tensor(0.6877, device='cuda:0', grad_fn=<NllLossBackward>)
[4510] Train Loss: tensor(0.7214, device='cuda:0', grad_fn=<NllLossBackward>)
[4511] Train Loss: tensor(0.7658, device='cuda:0', grad_fn=<NllLossBackward>)
Training Loss: 0.72342161624197 Time: 2435.638948202133 s
Training Accuaracy: 77.738914760292 %
[0] Valid Loss: tensor(0.7181, device='cuda:0')
[1] Valid Loss: tensor(0.8816, device='cuda:0')
[2] Valid Loss: tensor(0.6870, device='cuda:0')

```

[3] Valid Loss: tensor(0.6074, device='cuda:0')  
[4] Valid Loss: tensor(0.7339, device='cuda:0')  
[5] Valid Loss: tensor(0.7210, device='cuda:0')  
[6] Valid Loss: tensor(0.7107, device='cuda:0')  
[7] Valid Loss: tensor(0.8448, device='cuda:0')  
[8] Valid Loss: tensor(0.8114, device='cuda:0')  
[9] Valid Loss: tensor(0.8186, device='cuda:0')  
[10] Valid Loss: tensor(0.6907, device='cuda:0')  
[11] Valid Loss: tensor(0.6764, device='cuda:0')  
[12] Valid Loss: tensor(1.1317, device='cuda:0')  
[13] Valid Loss: tensor(0.9858, device='cuda:0')  
[14] Valid Loss: tensor(0.6367, device='cuda:0')  
[15] Valid Loss: tensor(0.7441, device='cuda:0')  
[16] Valid Loss: tensor(0.6338, device='cuda:0')  
[17] Valid Loss: tensor(0.7887, device='cuda:0')  
[18] Valid Loss: tensor(0.6712, device='cuda:0')  
[19] Valid Loss: tensor(0.6278, device='cuda:0')  
[20] Valid Loss: tensor(0.7045, device='cuda:0')  
[21] Valid Loss: tensor(0.5921, device='cuda:0')  
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[376] Valid Loss:  tensor(0.6388, device='cuda:0')
[377] Valid Loss:  tensor(0.9376, device='cuda:0')
[378] Valid Loss:  tensor(0.6612, device='cuda:0')
[379] Valid Loss:  tensor(0.8111, device='cuda:0')
[380] Valid Loss:  tensor(1.0980, device='cuda:0')
Testing Loss:  0.750731614630992
Testing Accuaracy:  76.8419628018732 %
Epoch Number:  7
[0] Train Loss:  tensor(0.7089, device='cuda:0', grad_fn=<NllLossBackward>)
[1] Train Loss:  tensor(0.6726, device='cuda:0', grad_fn=<NllLossBackward>)
[2] Train Loss:  tensor(0.7337, device='cuda:0', grad_fn=<NllLossBackward>)

```

```
[3] Train Loss: tensor(0.6573, device='cuda:0', grad_fn=<NllLossBackward>)
[4] Train Loss: tensor(0.7154, device='cuda:0', grad_fn=<NllLossBackward>)
[5] Train Loss: tensor(0.7059, device='cuda:0', grad_fn=<NllLossBackward>)
[6] Train Loss: tensor(0.6752, device='cuda:0', grad_fn=<NllLossBackward>)
[7] Train Loss: tensor(0.7666, device='cuda:0', grad_fn=<NllLossBackward>)
[8] Train Loss: tensor(0.7268, device='cuda:0', grad_fn=<NllLossBackward>)
[9] Train Loss: tensor(0.6900, device='cuda:0', grad_fn=<NllLossBackward>)
[10] Train Loss: tensor(0.6729, device='cuda:0', grad_fn=<NllLossBackward>)
[11] Train Loss: tensor(0.6964, device='cuda:0', grad_fn=<NllLossBackward>)
[12] Train Loss: tensor(0.6985, device='cuda:0', grad_fn=<NllLossBackward>)
[13] Train Loss: tensor(0.6891, device='cuda:0', grad_fn=<NllLossBackward>)
[14] Train Loss: tensor(0.6870, device='cuda:0', grad_fn=<NllLossBackward>)
[15] Train Loss: tensor(0.7194, device='cuda:0', grad_fn=<NllLossBackward>)
[16] Train Loss: tensor(0.6868, device='cuda:0', grad_fn=<NllLossBackward>)
[17] Train Loss: tensor(0.7029, device='cuda:0', grad_fn=<NllLossBackward>)
[18] Train Loss: tensor(0.7075, device='cuda:0', grad_fn=<NllLossBackward>)
[19] Train Loss: tensor(0.7145, device='cuda:0', grad_fn=<NllLossBackward>)
[20] Train Loss: tensor(0.7114, device='cuda:0', grad_fn=<NllLossBackward>)
[21] Train Loss: tensor(0.7101, device='cuda:0', grad_fn=<NllLossBackward>)
[22] Train Loss: tensor(0.6983, device='cuda:0', grad_fn=<NllLossBackward>)
[23] Train Loss: tensor(0.7020, device='cuda:0', grad_fn=<NllLossBackward>)
[24] Train Loss: tensor(0.7232, device='cuda:0', grad_fn=<NllLossBackward>)
[25] Train Loss: tensor(0.7242, device='cuda:0', grad_fn=<NllLossBackward>)
[26] Train Loss: tensor(0.6980, device='cuda:0', grad_fn=<NllLossBackward>)
[27] Train Loss: tensor(0.6894, device='cuda:0', grad_fn=<NllLossBackward>)
[28] Train Loss: tensor(0.7073, device='cuda:0', grad_fn=<NllLossBackward>)
[29] Train Loss: tensor(0.6629, device='cuda:0', grad_fn=<NllLossBackward>)
[30] Train Loss: tensor(0.7045, device='cuda:0', grad_fn=<NllLossBackward>)
[31] Train Loss: tensor(0.6994, device='cuda:0', grad_fn=<NllLossBackward>)
[32] Train Loss: tensor(0.7289, device='cuda:0', grad_fn=<NllLossBackward>)
[33] Train Loss: tensor(0.7345, device='cuda:0', grad_fn=<NllLossBackward>)
[34] Train Loss: tensor(0.6841, device='cuda:0', grad_fn=<NllLossBackward>)
[35] Train Loss: tensor(0.6702, device='cuda:0', grad_fn=<NllLossBackward>)
[36] Train Loss: tensor(0.7132, device='cuda:0', grad_fn=<NllLossBackward>)
[37] Train Loss: tensor(0.7095, device='cuda:0', grad_fn=<NllLossBackward>)
[38] Train Loss: tensor(0.6941, device='cuda:0', grad_fn=<NllLossBackward>)
[39] Train Loss: tensor(0.6903, device='cuda:0', grad_fn=<NllLossBackward>)
[40] Train Loss: tensor(0.6959, device='cuda:0', grad_fn=<NllLossBackward>)
[41] Train Loss: tensor(0.6984, device='cuda:0', grad_fn=<NllLossBackward>)
[42] Train Loss: tensor(0.6936, device='cuda:0', grad_fn=<NllLossBackward>)
[43] Train Loss: tensor(0.6861, device='cuda:0', grad_fn=<NllLossBackward>)
[44] Train Loss: tensor(0.6802, device='cuda:0', grad_fn=<NllLossBackward>)
[45] Train Loss: tensor(0.6894, device='cuda:0', grad_fn=<NllLossBackward>)
[46] Train Loss: tensor(0.6956, device='cuda:0', grad_fn=<NllLossBackward>)
[47] Train Loss: tensor(0.7257, device='cuda:0', grad_fn=<NllLossBackward>)
[48] Train Loss: tensor(0.6910, device='cuda:0', grad_fn=<NllLossBackward>)
[49] Train Loss: tensor(0.6835, device='cuda:0', grad_fn=<NllLossBackward>)
[50] Train Loss: tensor(0.6854, device='cuda:0', grad_fn=<NllLossBackward>)
```



























[illegible]









































































































[illegible]













[illegible]











































[illegible]















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[4467] Train Loss: tensor(0.7235, device='cuda:0', grad_fn=<NllLossBackward>)
[4468] Train Loss: tensor(0.6908, device='cuda:0', grad_fn=<NllLossBackward>)
[4469] Train Loss: tensor(0.7354, device='cuda:0', grad_fn=<NllLossBackward>)
[4470] Train Loss: tensor(0.7122, device='cuda:0', grad_fn=<NllLossBackward>)
[4471] Train Loss: tensor(0.7127, device='cuda:0', grad_fn=<NllLossBackward>)
[4472] Train Loss: tensor(0.7272, device='cuda:0', grad_fn=<NllLossBackward>)
[4473] Train Loss: tensor(0.6673, device='cuda:0', grad_fn=<NllLossBackward>)
[4474] Train Loss: tensor(0.6981, device='cuda:0', grad_fn=<NllLossBackward>)
[4475] Train Loss: tensor(0.7100, device='cuda:0', grad_fn=<NllLossBackward>)
[4476] Train Loss: tensor(0.7181, device='cuda:0', grad_fn=<NllLossBackward>)
[4477] Train Loss: tensor(0.7094, device='cuda:0', grad_fn=<NllLossBackward>)
[4478] Train Loss: tensor(0.7255, device='cuda:0', grad_fn=<NllLossBackward>)
[4479] Train Loss: tensor(0.7072, device='cuda:0', grad_fn=<NllLossBackward>)
[4480] Train Loss: tensor(0.6943, device='cuda:0', grad_fn=<NllLossBackward>)
[4481] Train Loss: tensor(0.7094, device='cuda:0', grad_fn=<NllLossBackward>)
[4482] Train Loss: tensor(0.6735, device='cuda:0', grad_fn=<NllLossBackward>)
[4483] Train Loss: tensor(0.6909, device='cuda:0', grad_fn=<NllLossBackward>)
[4484] Train Loss: tensor(0.6810, device='cuda:0', grad_fn=<NllLossBackward>)
[4485] Train Loss: tensor(0.7268, device='cuda:0', grad_fn=<NllLossBackward>)
[4486] Train Loss: tensor(0.6792, device='cuda:0', grad_fn=<NllLossBackward>)
[4487] Train Loss: tensor(0.7278, device='cuda:0', grad_fn=<NllLossBackward>)
[4488] Train Loss: tensor(0.6979, device='cuda:0', grad_fn=<NllLossBackward>)
[4489] Train Loss: tensor(0.7124, device='cuda:0', grad_fn=<NllLossBackward>)
[4490] Train Loss: tensor(0.7316, device='cuda:0', grad_fn=<NllLossBackward>)
[4491] Train Loss: tensor(0.7169, device='cuda:0', grad_fn=<NllLossBackward>)
[4492] Train Loss: tensor(0.7153, device='cuda:0', grad_fn=<NllLossBackward>)
[4493] Train Loss: tensor(0.7005, device='cuda:0', grad_fn=<NllLossBackward>)
[4494] Train Loss: tensor(0.7304, device='cuda:0', grad_fn=<NllLossBackward>)
[4495] Train Loss: tensor(0.6960, device='cuda:0', grad_fn=<NllLossBackward>)
[4496] Train Loss: tensor(0.7270, device='cuda:0', grad_fn=<NllLossBackward>)
[4497] Train Loss: tensor(0.7142, device='cuda:0', grad_fn=<NllLossBackward>)
[4498] Train Loss: tensor(0.6968, device='cuda:0', grad_fn=<NllLossBackward>)
[4499] Train Loss: tensor(0.7281, device='cuda:0', grad_fn=<NllLossBackward>)
[4500] Train Loss: tensor(0.6746, device='cuda:0', grad_fn=<NllLossBackward>)
[4501] Train Loss: tensor(0.7188, device='cuda:0', grad_fn=<NllLossBackward>)
[4502] Train Loss: tensor(0.6974, device='cuda:0', grad_fn=<NllLossBackward>)
[4503] Train Loss: tensor(0.6673, device='cuda:0', grad_fn=<NllLossBackward>)
[4504] Train Loss: tensor(0.7081, device='cuda:0', grad_fn=<NllLossBackward>)
[4505] Train Loss: tensor(0.6875, device='cuda:0', grad_fn=<NllLossBackward>)
[4506] Train Loss: tensor(0.7469, device='cuda:0', grad_fn=<NllLossBackward>)
[4507] Train Loss: tensor(0.7276, device='cuda:0', grad_fn=<NllLossBackward>)
[4508] Train Loss: tensor(0.7128, device='cuda:0', grad_fn=<NllLossBackward>)
[4509] Train Loss: tensor(0.7386, device='cuda:0', grad_fn=<NllLossBackward>)
[4510] Train Loss: tensor(0.7086, device='cuda:0', grad_fn=<NllLossBackward>)
[4511] Train Loss: tensor(0.6907, device='cuda:0', grad_fn=<NllLossBackward>)
Training Loss: 0.7097978640664765 Time: 2506.319940328598 s
Training Accuracy: 78.11539562035959 %
[0] Valid Loss: tensor(0.7129, device='cuda:0')

```

[1] Valid Loss: tensor(0.8820, device='cuda:0')  
[2] Valid Loss: tensor(0.6796, device='cuda:0')  
[3] Valid Loss: tensor(0.6170, device='cuda:0')  
[4] Valid Loss: tensor(0.7084, device='cuda:0')  
[5] Valid Loss: tensor(0.7181, device='cuda:0')  
[6] Valid Loss: tensor(0.7258, device='cuda:0')  
[7] Valid Loss: tensor(0.8595, device='cuda:0')  
[8] Valid Loss: tensor(0.8097, device='cuda:0')  
[9] Valid Loss: tensor(0.8145, device='cuda:0')  
[10] Valid Loss: tensor(0.7066, device='cuda:0')  
[11] Valid Loss: tensor(0.6792, device='cuda:0')  
[12] Valid Loss: tensor(1.1323, device='cuda:0')  
[13] Valid Loss: tensor(0.9650, device='cuda:0')  
[14] Valid Loss: tensor(0.6216, device='cuda:0')  
[15] Valid Loss: tensor(0.7410, device='cuda:0')  
[16] Valid Loss: tensor(0.6435, device='cuda:0')  
[17] Valid Loss: tensor(0.7944, device='cuda:0')  
[18] Valid Loss: tensor(0.6849, device='cuda:0')  
[19] Valid Loss: tensor(0.6277, device='cuda:0')  
[20] Valid Loss: tensor(0.6910, device='cuda:0')  
[21] Valid Loss: tensor(0.5895, device='cuda:0')  
[22] Valid Loss: tensor(0.5716, device='cuda:0')  
[23] Valid Loss: tensor(0.8225, device='cuda:0')  
[24] Valid Loss: tensor(0.7097, device='cuda:0')  
[25] Valid Loss: tensor(0.9711, device='cuda:0')  
[26] Valid Loss: tensor(0.5523, device='cuda:0')  
[27] Valid Loss: tensor(0.8937, device='cuda:0')  
[28] Valid Loss: tensor(0.6630, device='cuda:0')  
[29] Valid Loss: tensor(0.6907, device='cuda:0')  
[30] Valid Loss: tensor(0.6360, device='cuda:0')  
[31] Valid Loss: tensor(0.7194, device='cuda:0')  
[32] Valid Loss: tensor(0.8404, device='cuda:0')  
[33] Valid Loss: tensor(0.7950, device='cuda:0')  
[34] Valid Loss: tensor(0.7794, device='cuda:0')  
[35] Valid Loss: tensor(0.8584, device='cuda:0')  
[36] Valid Loss: tensor(0.6737, device='cuda:0')  
[37] Valid Loss: tensor(1.0251, device='cuda:0')  
[38] Valid Loss: tensor(0.8117, device='cuda:0')  
[39] Valid Loss: tensor(0.6633, device='cuda:0')  
[40] Valid Loss: tensor(0.7770, device='cuda:0')  
[41] Valid Loss: tensor(0.8671, device='cuda:0')  
[42] Valid Loss: tensor(0.7810, device='cuda:0')  
[43] Valid Loss: tensor(0.5690, device='cuda:0')  
[44] Valid Loss: tensor(0.6839, device='cuda:0')  
[45] Valid Loss: tensor(0.5821, device='cuda:0')  
[46] Valid Loss: tensor(0.8858, device='cuda:0')  
[47] Valid Loss: tensor(0.8197, device='cuda:0')  
[48] Valid Loss: tensor(0.6875, device='cuda:0')



[49] Valid Loss: tensor(0.7628, device='cuda:0')  
[50] Valid Loss: tensor(0.6941, device='cuda:0')  
[51] Valid Loss: tensor(0.6597, device='cuda:0')  
[52] Valid Loss: tensor(0.5947, device='cuda:0')  
[53] Valid Loss: tensor(0.9182, device='cuda:0')  
[54] Valid Loss: tensor(0.6119, device='cuda:0')  
[55] Valid Loss: tensor(0.5576, device='cuda:0')  
[56] Valid Loss: tensor(0.8520, device='cuda:0')  
[57] Valid Loss: tensor(0.8184, device='cuda:0')  
[58] Valid Loss: tensor(0.7692, device='cuda:0')  
[59] Valid Loss: tensor(0.6623, device='cuda:0')  
[60] Valid Loss: tensor(1.0372, device='cuda:0')  
[61] Valid Loss: tensor(0.6971, device='cuda:0')  
[62] Valid Loss: tensor(0.8840, device='cuda:0')  
[63] Valid Loss: tensor(0.6637, device='cuda:0')  
[64] Valid Loss: tensor(0.7399, device='cuda:0')  
[65] Valid Loss: tensor(0.8805, device='cuda:0')  
[66] Valid Loss: tensor(0.7204, device='cuda:0')  
[67] Valid Loss: tensor(0.7515, device='cuda:0')  
[68] Valid Loss: tensor(0.7299, device='cuda:0')  
[69] Valid Loss: tensor(0.5743, device='cuda:0')  
[70] Valid Loss: tensor(0.6026, device='cuda:0')  
[71] Valid Loss: tensor(0.8278, device='cuda:0')  
[72] Valid Loss: tensor(0.7571, device='cuda:0')  
[73] Valid Loss: tensor(0.6833, device='cuda:0')  
[74] Valid Loss: tensor(0.7730, device='cuda:0')  
[75] Valid Loss: tensor(0.8478, device='cuda:0')  
[76] Valid Loss: tensor(0.8034, device='cuda:0')  
[77] Valid Loss: tensor(0.7116, device='cuda:0')  
[78] Valid Loss: tensor(0.7710, device='cuda:0')  
[79] Valid Loss: tensor(0.6332, device='cuda:0')  
[80] Valid Loss: tensor(0.7368, device='cuda:0')  
[81] Valid Loss: tensor(0.6290, device='cuda:0')  
[82] Valid Loss: tensor(0.8782, device='cuda:0')  
[83] Valid Loss: tensor(0.8053, device='cuda:0')  
[84] Valid Loss: tensor(0.6138, device='cuda:0')  
[85] Valid Loss: tensor(0.7377, device='cuda:0')  
[86] Valid Loss: tensor(0.7529, device='cuda:0')  
[87] Valid Loss: tensor(0.8048, device='cuda:0')  
[88] Valid Loss: tensor(0.6073, device='cuda:0')  
[89] Valid Loss: tensor(0.8124, device='cuda:0')  
[90] Valid Loss: tensor(0.9414, device='cuda:0')  
[91] Valid Loss: tensor(0.7346, device='cuda:0')  
[92] Valid Loss: tensor(0.7816, device='cuda:0')  
[93] Valid Loss: tensor(0.7978, device='cuda:0')  
[94] Valid Loss: tensor(0.8541, device='cuda:0')  
[95] Valid Loss: tensor(0.7122, device='cuda:0')  
[96] Valid Loss: tensor(0.8614, device='cuda:0')

[97] Valid Loss: tensor(0.8089, device='cuda:0')  
[98] Valid Loss: tensor(0.8063, device='cuda:0')  
[99] Valid Loss: tensor(0.6269, device='cuda:0')  
[100] Valid Loss: tensor(0.7515, device='cuda:0')  
[101] Valid Loss: tensor(0.7331, device='cuda:0')  
[102] Valid Loss: tensor(0.9294, device='cuda:0')  
[103] Valid Loss: tensor(0.8514, device='cuda:0')  
[104] Valid Loss: tensor(0.6675, device='cuda:0')  
[105] Valid Loss: tensor(0.6859, device='cuda:0')  
[106] Valid Loss: tensor(0.6040, device='cuda:0')  
[107] Valid Loss: tensor(0.7689, device='cuda:0')  
[108] Valid Loss: tensor(0.8737, device='cuda:0')  
[109] Valid Loss: tensor(0.7576, device='cuda:0')  
[110] Valid Loss: tensor(0.7907, device='cuda:0')  
[111] Valid Loss: tensor(0.7645, device='cuda:0')  
[112] Valid Loss: tensor(0.8099, device='cuda:0')  
[113] Valid Loss: tensor(0.7687, device='cuda:0')  
[114] Valid Loss: tensor(0.7348, device='cuda:0')  
[115] Valid Loss: tensor(0.8284, device='cuda:0')  
[116] Valid Loss: tensor(0.8315, device='cuda:0')  
[117] Valid Loss: tensor(0.8417, device='cuda:0')  
[118] Valid Loss: tensor(0.6648, device='cuda:0')  
[119] Valid Loss: tensor(0.6072, device='cuda:0')  
[120] Valid Loss: tensor(1.0010, device='cuda:0')  
[121] Valid Loss: tensor(0.6897, device='cuda:0')  
[122] Valid Loss: tensor(0.7306, device='cuda:0')  
[123] Valid Loss: tensor(0.6929, device='cuda:0')  
[124] Valid Loss: tensor(0.9089, device='cuda:0')  
[125] Valid Loss: tensor(0.9452, device='cuda:0')  
[126] Valid Loss: tensor(0.5613, device='cuda:0')  
[127] Valid Loss: tensor(0.6260, device='cuda:0')  
[128] Valid Loss: tensor(0.8570, device='cuda:0')  
[129] Valid Loss: tensor(0.6982, device='cuda:0')  
[130] Valid Loss: tensor(0.8229, device='cuda:0')  
[131] Valid Loss: tensor(0.6840, device='cuda:0')  
[132] Valid Loss: tensor(0.6996, device='cuda:0')  
[133] Valid Loss: tensor(0.7743, device='cuda:0')  
[134] Valid Loss: tensor(0.6683, device='cuda:0')  
[135] Valid Loss: tensor(0.5992, device='cuda:0')  
[136] Valid Loss: tensor(0.6178, device='cuda:0')  
[137] Valid Loss: tensor(0.9748, device='cuda:0')  
[138] Valid Loss: tensor(0.8377, device='cuda:0')  
[139] Valid Loss: tensor(1.0550, device='cuda:0')  
[140] Valid Loss: tensor(0.8269, device='cuda:0')  
[141] Valid Loss: tensor(0.6483, device='cuda:0')  
[142] Valid Loss: tensor(0.9310, device='cuda:0')  
[143] Valid Loss: tensor(0.6278, device='cuda:0')  
[144] Valid Loss: tensor(0.7613, device='cuda:0')

[145] Valid Loss: tensor(0.9401, device='cuda:0')  
[146] Valid Loss: tensor(0.6792, device='cuda:0')  
[147] Valid Loss: tensor(0.8113, device='cuda:0')  
[148] Valid Loss: tensor(0.6841, device='cuda:0')  
[149] Valid Loss: tensor(0.7708, device='cuda:0')  
[150] Valid Loss: tensor(0.7496, device='cuda:0')  
[151] Valid Loss: tensor(0.7433, device='cuda:0')  
[152] Valid Loss: tensor(0.6678, device='cuda:0')  
[153] Valid Loss: tensor(0.6694, device='cuda:0')  
[154] Valid Loss: tensor(0.7090, device='cuda:0')  
[155] Valid Loss: tensor(0.7540, device='cuda:0')  
[156] Valid Loss: tensor(0.8256, device='cuda:0')  
[157] Valid Loss: tensor(0.6495, device='cuda:0')  
[158] Valid Loss: tensor(0.7181, device='cuda:0')  
[159] Valid Loss: tensor(0.7319, device='cuda:0')  
[160] Valid Loss: tensor(0.6061, device='cuda:0')  
[161] Valid Loss: tensor(0.8238, device='cuda:0')  
[162] Valid Loss: tensor(0.7829, device='cuda:0')  
[163] Valid Loss: tensor(0.6482, device='cuda:0')  
[164] Valid Loss: tensor(0.9561, device='cuda:0')  
[165] Valid Loss: tensor(0.7169, device='cuda:0')  
[166] Valid Loss: tensor(0.7179, device='cuda:0')  
[167] Valid Loss: tensor(0.5936, device='cuda:0')  
[168] Valid Loss: tensor(0.6923, device='cuda:0')  
[169] Valid Loss: tensor(0.6887, device='cuda:0')  
[170] Valid Loss: tensor(0.6874, device='cuda:0')  
[171] Valid Loss: tensor(0.5946, device='cuda:0')  
[172] Valid Loss: tensor(0.7728, device='cuda:0')  
[173] Valid Loss: tensor(0.6346, device='cuda:0')  
[174] Valid Loss: tensor(0.7515, device='cuda:0')  
[175] Valid Loss: tensor(0.6638, device='cuda:0')  
[176] Valid Loss: tensor(0.6022, device='cuda:0')  
[177] Valid Loss: tensor(0.7464, device='cuda:0')  
[178] Valid Loss: tensor(0.7693, device='cuda:0')  
[179] Valid Loss: tensor(0.7837, device='cuda:0')  
[180] Valid Loss: tensor(0.8104, device='cuda:0')  
[181] Valid Loss: tensor(0.7655, device='cuda:0')  
[182] Valid Loss: tensor(0.7305, device='cuda:0')  
[183] Valid Loss: tensor(0.7450, device='cuda:0')  
[184] Valid Loss: tensor(0.9090, device='cuda:0')  
[185] Valid Loss: tensor(0.8282, device='cuda:0')  
[186] Valid Loss: tensor(0.7015, device='cuda:0')  
[187] Valid Loss: tensor(0.8174, device='cuda:0')  
[188] Valid Loss: tensor(0.8953, device='cuda:0')  
[189] Valid Loss: tensor(0.7347, device='cuda:0')  
[190] Valid Loss: tensor(0.7422, device='cuda:0')  
[191] Valid Loss: tensor(0.6155, device='cuda:0')  
[192] Valid Loss: tensor(1.0107, device='cuda:0')

[193] Valid Loss: tensor(0.7477, device='cuda:0')  
[194] Valid Loss: tensor(0.8383, device='cuda:0')  
[195] Valid Loss: tensor(0.8540, device='cuda:0')  
[196] Valid Loss: tensor(0.6076, device='cuda:0')  
[197] Valid Loss: tensor(0.7773, device='cuda:0')  
[198] Valid Loss: tensor(0.7475, device='cuda:0')  
[199] Valid Loss: tensor(0.7875, device='cuda:0')  
[200] Valid Loss: tensor(0.7295, device='cuda:0')  
[201] Valid Loss: tensor(0.7068, device='cuda:0')  
[202] Valid Loss: tensor(0.6748, device='cuda:0')  
[203] Valid Loss: tensor(0.8930, device='cuda:0')  
[204] Valid Loss: tensor(0.8559, device='cuda:0')  
[205] Valid Loss: tensor(0.8506, device='cuda:0')  
[206] Valid Loss: tensor(0.9606, device='cuda:0')  
[207] Valid Loss: tensor(0.7768, device='cuda:0')  
[208] Valid Loss: tensor(0.6103, device='cuda:0')  
[209] Valid Loss: tensor(0.7259, device='cuda:0')  
[210] Valid Loss: tensor(1.1503, device='cuda:0')  
[211] Valid Loss: tensor(0.7681, device='cuda:0')  
[212] Valid Loss: tensor(0.6218, device='cuda:0')  
[213] Valid Loss: tensor(0.7071, device='cuda:0')  
[214] Valid Loss: tensor(0.7100, device='cuda:0')  
[215] Valid Loss: tensor(0.8278, device='cuda:0')  
[216] Valid Loss: tensor(0.7627, device='cuda:0')  
[217] Valid Loss: tensor(0.7182, device='cuda:0')  
[218] Valid Loss: tensor(0.5892, device='cuda:0')  
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[220] Valid Loss: tensor(0.6763, device='cuda:0')  
[221] Valid Loss: tensor(0.7676, device='cuda:0')  
[222] Valid Loss: tensor(0.5743, device='cuda:0')  
[223] Valid Loss: tensor(0.7005, device='cuda:0')  
[224] Valid Loss: tensor(0.8116, device='cuda:0')  
[225] Valid Loss: tensor(0.6055, device='cuda:0')  
[226] Valid Loss: tensor(0.7445, device='cuda:0')  
[227] Valid Loss: tensor(0.6188, device='cuda:0')  
[228] Valid Loss: tensor(0.8211, device='cuda:0')  
[229] Valid Loss: tensor(0.7017, device='cuda:0')  
[230] Valid Loss: tensor(0.7930, device='cuda:0')  
[231] Valid Loss: tensor(0.6880, device='cuda:0')  
[232] Valid Loss: tensor(0.6113, device='cuda:0')  
[233] Valid Loss: tensor(0.6964, device='cuda:0')  
[234] Valid Loss: tensor(0.5923, device='cuda:0')  
[235] Valid Loss: tensor(0.6273, device='cuda:0')  
[236] Valid Loss: tensor(0.7713, device='cuda:0')  
[237] Valid Loss: tensor(0.7907, device='cuda:0')  
[238] Valid Loss: tensor(0.5458, device='cuda:0')  
[239] Valid Loss: tensor(0.8100, device='cuda:0')  
[240] Valid Loss: tensor(0.7273, device='cuda:0')

[241] Valid Loss: tensor(0.6359, device='cuda:0')  
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[243] Valid Loss: tensor(1.1629, device='cuda:0')  
[244] Valid Loss: tensor(0.7872, device='cuda:0')  
[245] Valid Loss: tensor(0.7007, device='cuda:0')  
[246] Valid Loss: tensor(0.6551, device='cuda:0')  
[247] Valid Loss: tensor(0.6946, device='cuda:0')  
[248] Valid Loss: tensor(0.9364, device='cuda:0')  
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[252] Valid Loss: tensor(0.6217, device='cuda:0')  
[253] Valid Loss: tensor(0.6345, device='cuda:0')  
[254] Valid Loss: tensor(0.6507, device='cuda:0')  
[255] Valid Loss: tensor(0.7867, device='cuda:0')  
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[257] Valid Loss: tensor(0.7141, device='cuda:0')  
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[262] Valid Loss: tensor(0.8994, device='cuda:0')  
[263] Valid Loss: tensor(0.8763, device='cuda:0')  
[264] Valid Loss: tensor(0.8418, device='cuda:0')  
[265] Valid Loss: tensor(0.8034, device='cuda:0')  
[266] Valid Loss: tensor(0.6868, device='cuda:0')  
[267] Valid Loss: tensor(0.7311, device='cuda:0')  
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[269] Valid Loss: tensor(0.6912, device='cuda:0')  
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[271] Valid Loss: tensor(0.9568, device='cuda:0')  
[272] Valid Loss: tensor(0.7330, device='cuda:0')  
[273] Valid Loss: tensor(0.8741, device='cuda:0')  
[274] Valid Loss: tensor(0.6989, device='cuda:0')  
[275] Valid Loss: tensor(0.7485, device='cuda:0')  
[276] Valid Loss: tensor(0.6580, device='cuda:0')  
[277] Valid Loss: tensor(0.6331, device='cuda:0')  
[278] Valid Loss: tensor(0.9338, device='cuda:0')  
[279] Valid Loss: tensor(0.7969, device='cuda:0')  
[280] Valid Loss: tensor(0.8955, device='cuda:0')  
[281] Valid Loss: tensor(0.6584, device='cuda:0')  
[282] Valid Loss: tensor(0.7643, device='cuda:0')  
[283] Valid Loss: tensor(0.8970, device='cuda:0')  
[284] Valid Loss: tensor(0.6787, device='cuda:0')  
[285] Valid Loss: tensor(0.5744, device='cuda:0')  
[286] Valid Loss: tensor(0.8129, device='cuda:0')  
[287] Valid Loss: tensor(0.9342, device='cuda:0')  
[288] Valid Loss: tensor(0.5763, device='cuda:0')

[289] Valid Loss: tensor(0.7710, device='cuda:0')  
[290] Valid Loss: tensor(0.5962, device='cuda:0')  
[291] Valid Loss: tensor(0.7318, device='cuda:0')  
[292] Valid Loss: tensor(0.8613, device='cuda:0')  
[293] Valid Loss: tensor(0.6540, device='cuda:0')  
[294] Valid Loss: tensor(0.8802, device='cuda:0')  
[295] Valid Loss: tensor(0.6691, device='cuda:0')  
[296] Valid Loss: tensor(0.7622, device='cuda:0')  
[297] Valid Loss: tensor(0.8112, device='cuda:0')  
[298] Valid Loss: tensor(0.6697, device='cuda:0')  
[299] Valid Loss: tensor(0.7790, device='cuda:0')  
[300] Valid Loss: tensor(0.9216, device='cuda:0')  
[301] Valid Loss: tensor(0.6000, device='cuda:0')  
[302] Valid Loss: tensor(0.5685, device='cuda:0')  
[303] Valid Loss: tensor(0.6828, device='cuda:0')  
[304] Valid Loss: tensor(0.6557, device='cuda:0')  
[305] Valid Loss: tensor(0.7389, device='cuda:0')  
[306] Valid Loss: tensor(0.7854, device='cuda:0')  
[307] Valid Loss: tensor(0.5952, device='cuda:0')  
[308] Valid Loss: tensor(0.6425, device='cuda:0')  
[309] Valid Loss: tensor(0.6773, device='cuda:0')  
[310] Valid Loss: tensor(0.7155, device='cuda:0')  
[311] Valid Loss: tensor(0.6272, device='cuda:0')  
[312] Valid Loss: tensor(0.6060, device='cuda:0')  
[313] Valid Loss: tensor(0.7059, device='cuda:0')  
[314] Valid Loss: tensor(0.7250, device='cuda:0')  
[315] Valid Loss: tensor(1.0374, device='cuda:0')  
[316] Valid Loss: tensor(0.8660, device='cuda:0')  
[317] Valid Loss: tensor(0.7168, device='cuda:0')  
[318] Valid Loss: tensor(0.6720, device='cuda:0')  
[319] Valid Loss: tensor(0.6461, device='cuda:0')  
[320] Valid Loss: tensor(0.6723, device='cuda:0')  
[321] Valid Loss: tensor(0.6825, device='cuda:0')  
[322] Valid Loss: tensor(0.6424, device='cuda:0')  
[323] Valid Loss: tensor(0.8218, device='cuda:0')  
[324] Valid Loss: tensor(0.7510, device='cuda:0')  
[325] Valid Loss: tensor(0.6292, device='cuda:0')  
[326] Valid Loss: tensor(0.7253, device='cuda:0')  
[327] Valid Loss: tensor(0.4743, device='cuda:0')  
[328] Valid Loss: tensor(0.6768, device='cuda:0')  
[329] Valid Loss: tensor(0.8024, device='cuda:0')  
[330] Valid Loss: tensor(0.5954, device='cuda:0')  
[331] Valid Loss: tensor(0.9218, device='cuda:0')  
[332] Valid Loss: tensor(0.6073, device='cuda:0')  
[333] Valid Loss: tensor(0.5950, device='cuda:0')  
[334] Valid Loss: tensor(0.6072, device='cuda:0')  
[335] Valid Loss: tensor(0.7085, device='cuda:0')  
[336] Valid Loss: tensor(0.7928, device='cuda:0')

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[337] Valid Loss:  tensor(0.8614, device='cuda:0')
[338] Valid Loss:  tensor(0.7536, device='cuda:0')
[339] Valid Loss:  tensor(0.7171, device='cuda:0')
[340] Valid Loss:  tensor(0.7397, device='cuda:0')
[341] Valid Loss:  tensor(0.8616, device='cuda:0')
[342] Valid Loss:  tensor(0.9265, device='cuda:0')
[343] Valid Loss:  tensor(0.7763, device='cuda:0')
[344] Valid Loss:  tensor(0.6491, device='cuda:0')
[345] Valid Loss:  tensor(0.5604, device='cuda:0')
[346] Valid Loss:  tensor(0.7236, device='cuda:0')
[347] Valid Loss:  tensor(0.8407, device='cuda:0')
[348] Valid Loss:  tensor(0.7101, device='cuda:0')
[349] Valid Loss:  tensor(0.6767, device='cuda:0')
[350] Valid Loss:  tensor(0.7065, device='cuda:0')
[351] Valid Loss:  tensor(0.8212, device='cuda:0')
[352] Valid Loss:  tensor(0.6517, device='cuda:0')
[353] Valid Loss:  tensor(0.7413, device='cuda:0')
[354] Valid Loss:  tensor(0.9311, device='cuda:0')
[355] Valid Loss:  tensor(0.5307, device='cuda:0')
[356] Valid Loss:  tensor(0.6777, device='cuda:0')
[357] Valid Loss:  tensor(0.8207, device='cuda:0')
[358] Valid Loss:  tensor(0.6756, device='cuda:0')
[359] Valid Loss:  tensor(0.8117, device='cuda:0')
[360] Valid Loss:  tensor(0.7045, device='cuda:0')
[361] Valid Loss:  tensor(0.7577, device='cuda:0')
[362] Valid Loss:  tensor(0.7172, device='cuda:0')
[363] Valid Loss:  tensor(0.7941, device='cuda:0')
[364] Valid Loss:  tensor(0.9224, device='cuda:0')
[365] Valid Loss:  tensor(0.6933, device='cuda:0')
[366] Valid Loss:  tensor(0.6821, device='cuda:0')
[367] Valid Loss:  tensor(0.7750, device='cuda:0')
[368] Valid Loss:  tensor(0.8443, device='cuda:0')
[369] Valid Loss:  tensor(0.7258, device='cuda:0')
[370] Valid Loss:  tensor(0.6281, device='cuda:0')
[371] Valid Loss:  tensor(0.6500, device='cuda:0')
[372] Valid Loss:  tensor(0.8075, device='cuda:0')
[373] Valid Loss:  tensor(0.5464, device='cuda:0')
[374] Valid Loss:  tensor(0.7131, device='cuda:0')
[375] Valid Loss:  tensor(0.8062, device='cuda:0')
[376] Valid Loss:  tensor(0.6171, device='cuda:0')
[377] Valid Loss:  tensor(0.9106, device='cuda:0')
[378] Valid Loss:  tensor(0.6496, device='cuda:0')
[379] Valid Loss:  tensor(0.8229, device='cuda:0')
[380] Valid Loss:  tensor(1.0602, device='cuda:0')
Testing Loss:  0.7459756139069404
Testing Accuaracy:  77.05946607468489 %
Epoch Number:  8
[0] Train Loss:  tensor(0.7077, device='cuda:0', grad_fn=<NllLossBackward>)

```





[49] Train Loss: tensor(0.6942, device='cuda:0', grad\_fn=<NllLossBackward>)  
[50] Train Loss: tensor(0.6890, device='cuda:0', grad\_fn=<NllLossBackward>)  
[51] Train Loss: tensor(0.6991, device='cuda:0', grad\_fn=<NllLossBackward>)  
[52] Train Loss: tensor(0.6873, device='cuda:0', grad\_fn=<NllLossBackward>)  
[53] Train Loss: tensor(0.7236, device='cuda:0', grad\_fn=<NllLossBackward>)  
[54] Train Loss: tensor(0.6997, device='cuda:0', grad\_fn=<NllLossBackward>)  
[55] Train Loss: tensor(0.6697, device='cuda:0', grad\_fn=<NllLossBackward>)  
[56] Train Loss: tensor(0.7247, device='cuda:0', grad\_fn=<NllLossBackward>)  
[57] Train Loss: tensor(0.6908, device='cuda:0', grad\_fn=<NllLossBackward>)  
[58] Train Loss: tensor(0.7097, device='cuda:0', grad\_fn=<NllLossBackward>)  
[59] Train Loss: tensor(0.7258, device='cuda:0', grad\_fn=<NllLossBackward>)  
[60] Train Loss: tensor(0.6573, device='cuda:0', grad\_fn=<NllLossBackward>)  
[61] Train Loss: tensor(0.6944, device='cuda:0', grad\_fn=<NllLossBackward>)  
[62] Train Loss: tensor(0.6862, device='cuda:0', grad\_fn=<NllLossBackward>)  
[63] Train Loss: tensor(0.7121, device='cuda:0', grad\_fn=<NllLossBackward>)  
[64] Train Loss: tensor(0.7290, device='cuda:0', grad\_fn=<NllLossBackward>)  
[65] Train Loss: tensor(0.6920, device='cuda:0', grad\_fn=<NllLossBackward>)  
[66] Train Loss: tensor(0.6857, device='cuda:0', grad\_fn=<NllLossBackward>)  
[67] Train Loss: tensor(0.6976, device='cuda:0', grad\_fn=<NllLossBackward>)  
[68] Train Loss: tensor(0.6741, device='cuda:0', grad\_fn=<NllLossBackward>)  
[69] Train Loss: tensor(0.7200, device='cuda:0', grad\_fn=<NllLossBackward>)  
[70] Train Loss: tensor(0.7432, device='cuda:0', grad\_fn=<NllLossBackward>)  
[71] Train Loss: tensor(0.6598, device='cuda:0', grad\_fn=<NllLossBackward>)  
[72] Train Loss: tensor(0.6816, device='cuda:0', grad\_fn=<NllLossBackward>)  
[73] Train Loss: tensor(0.7193, device='cuda:0', grad\_fn=<NllLossBackward>)  
[74] Train Loss: tensor(0.6829, device='cuda:0', grad\_fn=<NllLossBackward>)  
[75] Train Loss: tensor(0.6992, device='cuda:0', grad\_fn=<NllLossBackward>)  
[76] Train Loss: tensor(0.6977, device='cuda:0', grad\_fn=<NllLossBackward>)  
[77] Train Loss: tensor(0.6870, device='cuda:0', grad\_fn=<NllLossBackward>)  
[78] Train Loss: tensor(0.6900, device='cuda:0', grad\_fn=<NllLossBackward>)  
[79] Train Loss: tensor(0.6896, device='cuda:0', grad\_fn=<NllLossBackward>)  
[80] Train Loss: tensor(0.6832, device='cuda:0', grad\_fn=<NllLossBackward>)  
[81] Train Loss: tensor(0.7105, device='cuda:0', grad\_fn=<NllLossBackward>)  
[82] Train Loss: tensor(0.6904, device='cuda:0', grad\_fn=<NllLossBackward>)  
[83] Train Loss: tensor(0.6739, device='cuda:0', grad\_fn=<NllLossBackward>)  
[84] Train Loss: tensor(0.6977, device='cuda:0', grad\_fn=<NllLossBackward>)  
[85] Train Loss: tensor(0.7058, device='cuda:0', grad\_fn=<NllLossBackward>)  
[86] Train Loss: tensor(0.6967, device='cuda:0', grad\_fn=<NllLossBackward>)  
[87] Train Loss: tensor(0.6538, device='cuda:0', grad\_fn=<NllLossBackward>)  
[88] Train Loss: tensor(0.6540, device='cuda:0', grad\_fn=<NllLossBackward>)  
[89] Train Loss: tensor(0.7069, device='cuda:0', grad\_fn=<NllLossBackward>)  
[90] Train Loss: tensor(0.7274, device='cuda:0', grad\_fn=<NllLossBackward>)  
[91] Train Loss: tensor(0.6703, device='cuda:0', grad\_fn=<NllLossBackward>)  
[92] Train Loss: tensor(0.6844, device='cuda:0', grad\_fn=<NllLossBackward>)  
[93] Train Loss: tensor(0.6743, device='cuda:0', grad\_fn=<NllLossBackward>)  
[94] Train Loss: tensor(0.7052, device='cuda:0', grad\_fn=<NllLossBackward>)  
[95] Train Loss: tensor(0.6974, device='cuda:0', grad\_fn=<NllLossBackward>)  
[96] Train Loss: tensor(0.7321, device='cuda:0', grad\_fn=<NllLossBackward>)



[illegible]





































[961] Train Loss: tensor(0.7108, device='cuda:0', grad\_fn=<NllLossBackward>)  
[962] Train Loss: tensor(0.7019, device='cuda:0', grad\_fn=<NllLossBackward>)  
[963] Train Loss: tensor(0.7053, device='cuda:0', grad\_fn=<NllLossBackward>)  
[964] Train Loss: tensor(0.6990, device='cuda:0', grad\_fn=<NllLossBackward>)  
[965] Train Loss: tensor(0.7106, device='cuda:0', grad\_fn=<NllLossBackward>)  
[966] Train Loss: tensor(0.7259, device='cuda:0', grad\_fn=<NllLossBackward>)  
[967] Train Loss: tensor(0.6792, device='cuda:0', grad\_fn=<NllLossBackward>)  
[968] Train Loss: tensor(0.7186, device='cuda:0', grad\_fn=<NllLossBackward>)  
[969] Train Loss: tensor(0.7183, device='cuda:0', grad\_fn=<NllLossBackward>)  
[970] Train Loss: tensor(0.6966, device='cuda:0', grad\_fn=<NllLossBackward>)  
[971] Train Loss: tensor(0.7584, device='cuda:0', grad\_fn=<NllLossBackward>)  
[972] Train Loss: tensor(0.6749, device='cuda:0', grad\_fn=<NllLossBackward>)  
[973] Train Loss: tensor(0.6830, device='cuda:0', grad\_fn=<NllLossBackward>)  
[974] Train Loss: tensor(0.7353, device='cuda:0', grad\_fn=<NllLossBackward>)  
[975] Train Loss: tensor(0.6807, device='cuda:0', grad\_fn=<NllLossBackward>)  
[976] Train Loss: tensor(0.7209, device='cuda:0', grad\_fn=<NllLossBackward>)  
[977] Train Loss: tensor(0.7168, device='cuda:0', grad\_fn=<NllLossBackward>)  
[978] Train Loss: tensor(0.6982, device='cuda:0', grad\_fn=<NllLossBackward>)  
[979] Train Loss: tensor(0.7286, device='cuda:0', grad\_fn=<NllLossBackward>)  
[980] Train Loss: tensor(0.6681, device='cuda:0', grad\_fn=<NllLossBackward>)  
[981] Train Loss: tensor(0.7242, device='cuda:0', grad\_fn=<NllLossBackward>)  
[982] Train Loss: tensor(0.6829, device='cuda:0', grad\_fn=<NllLossBackward>)  
[983] Train Loss: tensor(0.6899, device='cuda:0', grad\_fn=<NllLossBackward>)  
[984] Train Loss: tensor(0.6978, device='cuda:0', grad\_fn=<NllLossBackward>)  
[985] Train Loss: tensor(0.7007, device='cuda:0', grad\_fn=<NllLossBackward>)  
[986] Train Loss: tensor(0.7190, device='cuda:0', grad\_fn=<NllLossBackward>)  
[987] Train Loss: tensor(0.6994, device='cuda:0', grad\_fn=<NllLossBackward>)  
[988] Train Loss: tensor(0.7167, device='cuda:0', grad\_fn=<NllLossBackward>)  
[989] Train Loss: tensor(0.7171, device='cuda:0', grad\_fn=<NllLossBackward>)  
[990] Train Loss: tensor(0.7095, device='cuda:0', grad\_fn=<NllLossBackward>)  
[991] Train Loss: tensor(0.6992, device='cuda:0', grad\_fn=<NllLossBackward>)  
[992] Train Loss: tensor(0.7402, device='cuda:0', grad\_fn=<NllLossBackward>)  
[993] Train Loss: tensor(0.7052, device='cuda:0', grad\_fn=<NllLossBackward>)  
[994] Train Loss: tensor(0.7328, device='cuda:0', grad\_fn=<NllLossBackward>)  
[995] Train Loss: tensor(0.6922, device='cuda:0', grad\_fn=<NllLossBackward>)  
[996] Train Loss: tensor(0.6947, device='cuda:0', grad\_fn=<NllLossBackward>)  
[997] Train Loss: tensor(0.6973, device='cuda:0', grad\_fn=<NllLossBackward>)  
[998] Train Loss: tensor(0.6736, device='cuda:0', grad\_fn=<NllLossBackward>)  
[999] Train Loss: tensor(0.6841, device='cuda:0', grad\_fn=<NllLossBackward>)  
[1000] Train Loss: tensor(0.7046, device='cuda:0', grad\_fn=<NllLossBackward>)  
[1001] Train Loss: tensor(0.6944, device='cuda:0', grad\_fn=<NllLossBackward>)  
[1002] Train Loss: tensor(0.7096, device='cuda:0', grad\_fn=<NllLossBackward>)  
[1003] Train Loss: tensor(0.7320, device='cuda:0', grad\_fn=<NllLossBackward>)  
[1004] Train Loss: tensor(0.7490, device='cuda:0', grad\_fn=<NllLossBackward>)  
[1005] Train Loss: tensor(0.7125, device='cuda:0', grad\_fn=<NllLossBackward>)  
[1006] Train Loss: tensor(0.7013, device='cuda:0', grad\_fn=<NllLossBackward>)  
[1007] Train Loss: tensor(0.7036, device='cuda:0', grad\_fn=<NllLossBackward>)  
[1008] Train Loss: tensor(0.6878, device='cuda:0', grad\_fn=<NllLossBackward>)























[illegible]











































































































































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[4465] Train Loss: tensor(0.7029, device='cuda:0', grad_fn=<NllLossBackward>)  
[4466] Train Loss: tensor(0.6852, device='cuda:0', grad_fn=<NllLossBackward>)  
[4467] Train Loss: tensor(0.6873, device='cuda:0', grad_fn=<NllLossBackward>)  
[4468] Train Loss: tensor(0.7017, device='cuda:0', grad_fn=<NllLossBackward>)  
[4469] Train Loss: tensor(0.6949, device='cuda:0', grad_fn=<NllLossBackward>)  
[4470] Train Loss: tensor(0.7175, device='cuda:0', grad_fn=<NllLossBackward>)  
[4471] Train Loss: tensor(0.6870, device='cuda:0', grad_fn=<NllLossBackward>)  
[4472] Train Loss: tensor(0.6997, device='cuda:0', grad_fn=<NllLossBackward>)  
[4473] Train Loss: tensor(0.7034, device='cuda:0', grad_fn=<NllLossBackward>)  
[4474] Train Loss: tensor(0.6985, device='cuda:0', grad_fn=<NllLossBackward>)  
[4475] Train Loss: tensor(0.7072, device='cuda:0', grad_fn=<NllLossBackward>)  
[4476] Train Loss: tensor(0.6929, device='cuda:0', grad_fn=<NllLossBackward>)  
[4477] Train Loss: tensor(0.6926, device='cuda:0', grad_fn=<NllLossBackward>)  
[4478] Train Loss: tensor(0.6600, device='cuda:0', grad_fn=<NllLossBackward>)  
[4479] Train Loss: tensor(0.6915, device='cuda:0', grad_fn=<NllLossBackward>)  
[4480] Train Loss: tensor(0.6888, device='cuda:0', grad_fn=<NllLossBackward>)  
[4481] Train Loss: tensor(0.7225, device='cuda:0', grad_fn=<NllLossBackward>)  
[4482] Train Loss: tensor(0.6901, device='cuda:0', grad_fn=<NllLossBackward>)  
[4483] Train Loss: tensor(0.6515, device='cuda:0', grad_fn=<NllLossBackward>)  
[4484] Train Loss: tensor(0.7422, device='cuda:0', grad_fn=<NllLossBackward>)  
[4485] Train Loss: tensor(0.6901, device='cuda:0', grad_fn=<NllLossBackward>)  
[4486] Train Loss: tensor(0.6810, device='cuda:0', grad_fn=<NllLossBackward>)  
[4487] Train Loss: tensor(0.7368, device='cuda:0', grad_fn=<NllLossBackward>)  
[4488] Train Loss: tensor(0.7208, device='cuda:0', grad_fn=<NllLossBackward>)  
[4489] Train Loss: tensor(0.6946, device='cuda:0', grad_fn=<NllLossBackward>)  
[4490] Train Loss: tensor(0.7150, device='cuda:0', grad_fn=<NllLossBackward>)  
[4491] Train Loss: tensor(0.7054, device='cuda:0', grad_fn=<NllLossBackward>)  
[4492] Train Loss: tensor(0.7221, device='cuda:0', grad_fn=<NllLossBackward>)  
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[4494] Train Loss: tensor(0.7218, device='cuda:0', grad_fn=<NllLossBackward>)  
[4495] Train Loss: tensor(0.7285, device='cuda:0', grad_fn=<NllLossBackward>)  
[4496] Train Loss: tensor(0.7065, device='cuda:0', grad_fn=<NllLossBackward>)  
[4497] Train Loss: tensor(0.6754, device='cuda:0', grad_fn=<NllLossBackward>)  
[4498] Train Loss: tensor(0.7254, device='cuda:0', grad_fn=<NllLossBackward>)  
[4499] Train Loss: tensor(0.6716, device='cuda:0', grad_fn=<NllLossBackward>)  
[4500] Train Loss: tensor(0.7139, device='cuda:0', grad_fn=<NllLossBackward>)  
[4501] Train Loss: tensor(0.6770, device='cuda:0', grad_fn=<NllLossBackward>)  
[4502] Train Loss: tensor(0.7013, device='cuda:0', grad_fn=<NllLossBackward>)  
[4503] Train Loss: tensor(0.7021, device='cuda:0', grad_fn=<NllLossBackward>)  
[4504] Train Loss: tensor(0.6937, device='cuda:0', grad_fn=<NllLossBackward>)  
[4505] Train Loss: tensor(0.7041, device='cuda:0', grad_fn=<NllLossBackward>)  
[4506] Train Loss: tensor(0.7036, device='cuda:0', grad_fn=<NllLossBackward>)  
[4507] Train Loss: tensor(0.6867, device='cuda:0', grad_fn=<NllLossBackward>)  
[4508] Train Loss: tensor(0.6940, device='cuda:0', grad_fn=<NllLossBackward>)  
[4509] Train Loss: tensor(0.6987, device='cuda:0', grad_fn=<NllLossBackward>)  
[4510] Train Loss: tensor(0.7035, device='cuda:0', grad_fn=<NllLossBackward>)  
[4511] Train Loss: tensor(0.7049, device='cuda:0', grad_fn=<NllLossBackward>)  
Training Loss: 0.6987583677793014 Time: 2447.1590027809143 s
```

Training Accuaracy: 78.43709634550919 %

[0]	Valid Loss:	tensor(0.7064, device='cuda:0')
[1]	Valid Loss:	tensor(0.8799, device='cuda:0')
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[3]	Valid Loss:	tensor(0.6154, device='cuda:0')
[4]	Valid Loss:	tensor(0.6906, device='cuda:0')
[5]	Valid Loss:	tensor(0.7017, device='cuda:0')
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[8]	Valid Loss:	tensor(0.8073, device='cuda:0')
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[306] Valid Loss: tensor(0.7496, device='cuda:0')  
[307] Valid Loss: tensor(0.5916, device='cuda:0')  
[308] Valid Loss: tensor(0.6514, device='cuda:0')  
[309] Valid Loss: tensor(0.6554, device='cuda:0')  
[310] Valid Loss: tensor(0.6769, device='cuda:0')  
[311] Valid Loss: tensor(0.5958, device='cuda:0')  
[312] Valid Loss: tensor(0.5987, device='cuda:0')  
[313] Valid Loss: tensor(0.6991, device='cuda:0')  
[314] Valid Loss: tensor(0.7157, device='cuda:0')  
[315] Valid Loss: tensor(1.0131, device='cuda:0')  
[316] Valid Loss: tensor(0.8489, device='cuda:0')  
[317] Valid Loss: tensor(0.7010, device='cuda:0')  
[318] Valid Loss: tensor(0.6714, device='cuda:0')  
[319] Valid Loss: tensor(0.6521, device='cuda:0')  
[320] Valid Loss: tensor(0.6561, device='cuda:0')  
[321] Valid Loss: tensor(0.6699, device='cuda:0')  
[322] Valid Loss: tensor(0.6333, device='cuda:0')  
[323] Valid Loss: tensor(0.7995, device='cuda:0')  
[324] Valid Loss: tensor(0.7491, device='cuda:0')  
[325] Valid Loss: tensor(0.6165, device='cuda:0')  
[326] Valid Loss: tensor(0.7155, device='cuda:0')  
[327] Valid Loss: tensor(0.4648, device='cuda:0')  
[328] Valid Loss: tensor(0.6681, device='cuda:0')  
[329] Valid Loss: tensor(0.7937, device='cuda:0')  
[330] Valid Loss: tensor(0.5942, device='cuda:0')  
[331] Valid Loss: tensor(0.9184, device='cuda:0')  
[332] Valid Loss: tensor(0.5991, device='cuda:0')  
[333] Valid Loss: tensor(0.5907, device='cuda:0')  
[334] Valid Loss: tensor(0.6094, device='cuda:0')

[335] Valid Loss: tensor(0.6890, device='cuda:0')  
[336] Valid Loss: tensor(0.7927, device='cuda:0')  
[337] Valid Loss: tensor(0.8763, device='cuda:0')  
[338] Valid Loss: tensor(0.7552, device='cuda:0')  
[339] Valid Loss: tensor(0.6965, device='cuda:0')  
[340] Valid Loss: tensor(0.7484, device='cuda:0')  
[341] Valid Loss: tensor(0.8460, device='cuda:0')  
[342] Valid Loss: tensor(0.9127, device='cuda:0')  
[343] Valid Loss: tensor(0.7437, device='cuda:0')  
[344] Valid Loss: tensor(0.6267, device='cuda:0')  
[345] Valid Loss: tensor(0.5553, device='cuda:0')  
[346] Valid Loss: tensor(0.7100, device='cuda:0')  
[347] Valid Loss: tensor(0.8414, device='cuda:0')  
[348] Valid Loss: tensor(0.7007, device='cuda:0')  
[349] Valid Loss: tensor(0.6780, device='cuda:0')  
[350] Valid Loss: tensor(0.6893, device='cuda:0')  
[351] Valid Loss: tensor(0.7974, device='cuda:0')  
[352] Valid Loss: tensor(0.6552, device='cuda:0')  
[353] Valid Loss: tensor(0.7368, device='cuda:0')  
[354] Valid Loss: tensor(0.9338, device='cuda:0')  
[355] Valid Loss: tensor(0.5174, device='cuda:0')  
[356] Valid Loss: tensor(0.6743, device='cuda:0')  
[357] Valid Loss: tensor(0.8027, device='cuda:0')  
[358] Valid Loss: tensor(0.6835, device='cuda:0')  
[359] Valid Loss: tensor(0.7831, device='cuda:0')  
[360] Valid Loss: tensor(0.6976, device='cuda:0')  
[361] Valid Loss: tensor(0.7246, device='cuda:0')  
[362] Valid Loss: tensor(0.7244, device='cuda:0')  
[363] Valid Loss: tensor(0.7640, device='cuda:0')  
[364] Valid Loss: tensor(0.9219, device='cuda:0')  
[365] Valid Loss: tensor(0.6875, device='cuda:0')  
[366] Valid Loss: tensor(0.6677, device='cuda:0')  
[367] Valid Loss: tensor(0.7688, device='cuda:0')  
[368] Valid Loss: tensor(0.8148, device='cuda:0')  
[369] Valid Loss: tensor(0.7378, device='cuda:0')  
[370] Valid Loss: tensor(0.6118, device='cuda:0')  
[371] Valid Loss: tensor(0.6257, device='cuda:0')  
[372] Valid Loss: tensor(0.7904, device='cuda:0')  
[373] Valid Loss: tensor(0.5416, device='cuda:0')  
[374] Valid Loss: tensor(0.7015, device='cuda:0')  
[375] Valid Loss: tensor(0.7999, device='cuda:0')  
[376] Valid Loss: tensor(0.6216, device='cuda:0')  
[377] Valid Loss: tensor(0.9198, device='cuda:0')  
[378] Valid Loss: tensor(0.6253, device='cuda:0')  
[379] Valid Loss: tensor(0.8058, device='cuda:0')  
[380] Valid Loss: tensor(1.0710, device='cuda:0')

Testing Loss: 0.7364098899789996

Testing Accuaracy: 77.30410113292842 %

Epoch Number: 9

```
[0] Train Loss: tensor(0.6591, device='cuda:0', grad_fn=<NllLossBackward>)  
[1] Train Loss: tensor(0.7206, device='cuda:0', grad_fn=<NllLossBackward>)  
[2] Train Loss: tensor(0.6826, device='cuda:0', grad_fn=<NllLossBackward>)  
[3] Train Loss: tensor(0.6667, device='cuda:0', grad_fn=<NllLossBackward>)  
[4] Train Loss: tensor(0.7033, device='cuda:0', grad_fn=<NllLossBackward>)  
[5] Train Loss: tensor(0.6872, device='cuda:0', grad_fn=<NllLossBackward>)  
[6] Train Loss: tensor(0.6634, device='cuda:0', grad_fn=<NllLossBackward>)  
[7] Train Loss: tensor(0.7019, device='cuda:0', grad_fn=<NllLossBackward>)  
[8] Train Loss: tensor(0.6473, device='cuda:0', grad_fn=<NllLossBackward>)  
[9] Train Loss: tensor(0.6929, device='cuda:0', grad_fn=<NllLossBackward>)  
[10] Train Loss: tensor(0.7359, device='cuda:0', grad_fn=<NllLossBackward>)  
[11] Train Loss: tensor(0.6918, device='cuda:0', grad_fn=<NllLossBackward>)  
[12] Train Loss: tensor(0.7064, device='cuda:0', grad_fn=<NllLossBackward>)  
[13] Train Loss: tensor(0.6989, device='cuda:0', grad_fn=<NllLossBackward>)  
[14] Train Loss: tensor(0.7042, device='cuda:0', grad_fn=<NllLossBackward>)  
[15] Train Loss: tensor(0.7010, device='cuda:0', grad_fn=<NllLossBackward>)  
[16] Train Loss: tensor(0.6889, device='cuda:0', grad_fn=<NllLossBackward>)  
[17] Train Loss: tensor(0.6709, device='cuda:0', grad_fn=<NllLossBackward>)  
[18] Train Loss: tensor(0.7061, device='cuda:0', grad_fn=<NllLossBackward>)  
[19] Train Loss: tensor(0.6599, device='cuda:0', grad_fn=<NllLossBackward>)  
[20] Train Loss: tensor(0.6693, device='cuda:0', grad_fn=<NllLossBackward>)  
[21] Train Loss: tensor(0.6815, device='cuda:0', grad_fn=<NllLossBackward>)  
[22] Train Loss: tensor(0.6605, device='cuda:0', grad_fn=<NllLossBackward>)  
[23] Train Loss: tensor(0.7090, device='cuda:0', grad_fn=<NllLossBackward>)  
[24] Train Loss: tensor(0.6808, device='cuda:0', grad_fn=<NllLossBackward>)  
[25] Train Loss: tensor(0.6983, device='cuda:0', grad_fn=<NllLossBackward>)  
[26] Train Loss: tensor(0.6899, device='cuda:0', grad_fn=<NllLossBackward>)  
[27] Train Loss: tensor(0.6589, device='cuda:0', grad_fn=<NllLossBackward>)  
[28] Train Loss: tensor(0.6947, device='cuda:0', grad_fn=<NllLossBackward>)  
[29] Train Loss: tensor(0.7166, device='cuda:0', grad_fn=<NllLossBackward>)  
[30] Train Loss: tensor(0.6812, device='cuda:0', grad_fn=<NllLossBackward>)  
[31] Train Loss: tensor(0.7164, device='cuda:0', grad_fn=<NllLossBackward>)  
[32] Train Loss: tensor(0.6797, device='cuda:0', grad_fn=<NllLossBackward>)  
[33] Train Loss: tensor(0.6906, device='cuda:0', grad_fn=<NllLossBackward>)  
[34] Train Loss: tensor(0.6822, device='cuda:0', grad_fn=<NllLossBackward>)  
[35] Train Loss: tensor(0.7095, device='cuda:0', grad_fn=<NllLossBackward>)  
[36] Train Loss: tensor(0.7011, device='cuda:0', grad_fn=<NllLossBackward>)  
[37] Train Loss: tensor(0.6439, device='cuda:0', grad_fn=<NllLossBackward>)  
[38] Train Loss: tensor(0.6793, device='cuda:0', grad_fn=<NllLossBackward>)  
[39] Train Loss: tensor(0.6724, device='cuda:0', grad_fn=<NllLossBackward>)  
[40] Train Loss: tensor(0.6869, device='cuda:0', grad_fn=<NllLossBackward>)  
[41] Train Loss: tensor(0.7131, device='cuda:0', grad_fn=<NllLossBackward>)  
[42] Train Loss: tensor(0.6879, device='cuda:0', grad_fn=<NllLossBackward>)  
[43] Train Loss: tensor(0.6716, device='cuda:0', grad_fn=<NllLossBackward>)  
[44] Train Loss: tensor(0.6628, device='cuda:0', grad_fn=<NllLossBackward>)  
[45] Train Loss: tensor(0.6692, device='cuda:0', grad_fn=<NllLossBackward>)  
[46] Train Loss: tensor(0.6500, device='cuda:0', grad_fn=<NllLossBackward>)
```













































[959] Train Loss: tensor(0.6877, device='cuda:0', grad\_fn=<NllLossBackward>)  
[960] Train Loss: tensor(0.6660, device='cuda:0', grad\_fn=<NllLossBackward>)  
[961] Train Loss: tensor(0.6848, device='cuda:0', grad\_fn=<NllLossBackward>)  
[962] Train Loss: tensor(0.6735, device='cuda:0', grad\_fn=<NllLossBackward>)  
[963] Train Loss: tensor(0.6686, device='cuda:0', grad\_fn=<NllLossBackward>)  
[964] Train Loss: tensor(0.6852, device='cuda:0', grad\_fn=<NllLossBackward>)  
[965] Train Loss: tensor(0.6606, device='cuda:0', grad\_fn=<NllLossBackward>)  
[966] Train Loss: tensor(0.7130, device='cuda:0', grad\_fn=<NllLossBackward>)  
[967] Train Loss: tensor(0.6707, device='cuda:0', grad\_fn=<NllLossBackward>)  
[968] Train Loss: tensor(0.6769, device='cuda:0', grad\_fn=<NllLossBackward>)  
[969] Train Loss: tensor(0.6687, device='cuda:0', grad\_fn=<NllLossBackward>)  
[970] Train Loss: tensor(0.7040, device='cuda:0', grad\_fn=<NllLossBackward>)  
[971] Train Loss: tensor(0.6863, device='cuda:0', grad\_fn=<NllLossBackward>)  
[972] Train Loss: tensor(0.6700, device='cuda:0', grad\_fn=<NllLossBackward>)  
[973] Train Loss: tensor(0.6869, device='cuda:0', grad\_fn=<NllLossBackward>)  
[974] Train Loss: tensor(0.6867, device='cuda:0', grad\_fn=<NllLossBackward>)  
[975] Train Loss: tensor(0.7064, device='cuda:0', grad\_fn=<NllLossBackward>)  
[976] Train Loss: tensor(0.6596, device='cuda:0', grad\_fn=<NllLossBackward>)  
[977] Train Loss: tensor(0.7086, device='cuda:0', grad\_fn=<NllLossBackward>)  
[978] Train Loss: tensor(0.7000, device='cuda:0', grad\_fn=<NllLossBackward>)  
[979] Train Loss: tensor(0.6844, device='cuda:0', grad\_fn=<NllLossBackward>)  
[980] Train Loss: tensor(0.6775, device='cuda:0', grad\_fn=<NllLossBackward>)  
[981] Train Loss: tensor(0.6789, device='cuda:0', grad\_fn=<NllLossBackward>)  
[982] Train Loss: tensor(0.6699, device='cuda:0', grad\_fn=<NllLossBackward>)  
[983] Train Loss: tensor(0.6650, device='cuda:0', grad\_fn=<NllLossBackward>)  
[984] Train Loss: tensor(0.6728, device='cuda:0', grad\_fn=<NllLossBackward>)  
[985] Train Loss: tensor(0.6494, device='cuda:0', grad\_fn=<NllLossBackward>)  
[986] Train Loss: tensor(0.6872, device='cuda:0', grad\_fn=<NllLossBackward>)  
[987] Train Loss: tensor(0.6598, device='cuda:0', grad\_fn=<NllLossBackward>)  
[988] Train Loss: tensor(0.6866, device='cuda:0', grad\_fn=<NllLossBackward>)  
[989] Train Loss: tensor(0.7175, device='cuda:0', grad\_fn=<NllLossBackward>)  
[990] Train Loss: tensor(0.6868, device='cuda:0', grad\_fn=<NllLossBackward>)  
[991] Train Loss: tensor(0.6818, device='cuda:0', grad\_fn=<NllLossBackward>)  
[992] Train Loss: tensor(0.6767, device='cuda:0', grad\_fn=<NllLossBackward>)  
[993] Train Loss: tensor(0.6665, device='cuda:0', grad\_fn=<NllLossBackward>)  
[994] Train Loss: tensor(0.6993, device='cuda:0', grad\_fn=<NllLossBackward>)  
[995] Train Loss: tensor(0.6763, device='cuda:0', grad\_fn=<NllLossBackward>)  
[996] Train Loss: tensor(0.7044, device='cuda:0', grad\_fn=<NllLossBackward>)  
[997] Train Loss: tensor(0.6987, device='cuda:0', grad\_fn=<NllLossBackward>)  
[998] Train Loss: tensor(0.6550, device='cuda:0', grad\_fn=<NllLossBackward>)  
[999] Train Loss: tensor(0.6731, device='cuda:0', grad\_fn=<NllLossBackward>)  
[1000] Train Loss: tensor(0.7020, device='cuda:0', grad\_fn=<NllLossBackward>)  
[1001] Train Loss: tensor(0.6862, device='cuda:0', grad\_fn=<NllLossBackward>)  
[1002] Train Loss: tensor(0.7256, device='cuda:0', grad\_fn=<NllLossBackward>)  
[1003] Train Loss: tensor(0.6799, device='cuda:0', grad\_fn=<NllLossBackward>)  
[1004] Train Loss: tensor(0.6904, device='cuda:0', grad\_fn=<NllLossBackward>)  
[1005] Train Loss: tensor(0.7087, device='cuda:0', grad\_fn=<NllLossBackward>)  
[1006] Train Loss: tensor(0.7128, device='cuda:0', grad\_fn=<NllLossBackward>)













































































































[illegible]







[illegible]



























[illegible]



















```

[4511] Train Loss:  tensor(0.6973, device='cuda:0', grad_fn=<NllLossBackward>)
Training Loss:  0.6888509186262146 Time:  2517.247688293457 s
Training Accuaracy:  78.70972004342588 %
[0] Valid Loss:  tensor(0.6958, device='cuda:0')
[1] Valid Loss:  tensor(0.8811, device='cuda:0')
[2] Valid Loss:  tensor(0.6665, device='cuda:0')
[3] Valid Loss:  tensor(0.6099, device='cuda:0')
[4] Valid Loss:  tensor(0.7065, device='cuda:0')
[5] Valid Loss:  tensor(0.6996, device='cuda:0')
[6] Valid Loss:  tensor(0.7201, device='cuda:0')
[7] Valid Loss:  tensor(0.8241, device='cuda:0')
[8] Valid Loss:  tensor(0.7997, device='cuda:0')
[9] Valid Loss:  tensor(0.8065, device='cuda:0')
[10] Valid Loss:  tensor(0.6860, device='cuda:0')
[11] Valid Loss:  tensor(0.6595, device='cuda:0')
[12] Valid Loss:  tensor(1.1094, device='cuda:0')
[13] Valid Loss:  tensor(0.9812, device='cuda:0')
[14] Valid Loss:  tensor(0.6063, device='cuda:0')
[15] Valid Loss:  tensor(0.7393, device='cuda:0')
[16] Valid Loss:  tensor(0.6060, device='cuda:0')
[17] Valid Loss:  tensor(0.7679, device='cuda:0')
[18] Valid Loss:  tensor(0.6543, device='cuda:0')
[19] Valid Loss:  tensor(0.6165, device='cuda:0')
[20] Valid Loss:  tensor(0.6625, device='cuda:0')
[21] Valid Loss:  tensor(0.5785, device='cuda:0')
[22] Valid Loss:  tensor(0.5637, device='cuda:0')
[23] Valid Loss:  tensor(0.8206, device='cuda:0')
[24] Valid Loss:  tensor(0.6828, device='cuda:0')
[25] Valid Loss:  tensor(0.9639, device='cuda:0')
[26] Valid Loss:  tensor(0.5354, device='cuda:0')
[27] Valid Loss:  tensor(0.9110, device='cuda:0')
[28] Valid Loss:  tensor(0.6651, device='cuda:0')
[29] Valid Loss:  tensor(0.6799, device='cuda:0')
[30] Valid Loss:  tensor(0.6267, device='cuda:0')
[31] Valid Loss:  tensor(0.7337, device='cuda:0')
[32] Valid Loss:  tensor(0.8196, device='cuda:0')
[33] Valid Loss:  tensor(0.7911, device='cuda:0')
[34] Valid Loss:  tensor(0.7813, device='cuda:0')
[35] Valid Loss:  tensor(0.8689, device='cuda:0')
[36] Valid Loss:  tensor(0.6681, device='cuda:0')
[37] Valid Loss:  tensor(1.0375, device='cuda:0')
[38] Valid Loss:  tensor(0.8184, device='cuda:0')
[39] Valid Loss:  tensor(0.6456, device='cuda:0')
[40] Valid Loss:  tensor(0.7468, device='cuda:0')
[41] Valid Loss:  tensor(0.8375, device='cuda:0')
[42] Valid Loss:  tensor(0.7687, device='cuda:0')
[43] Valid Loss:  tensor(0.5613, device='cuda:0')
[44] Valid Loss:  tensor(0.6704, device='cuda:0')

```

[45] Valid Loss: tensor(0.5887, device='cuda:0')  
[46] Valid Loss: tensor(0.8612, device='cuda:0')  
[47] Valid Loss: tensor(0.7859, device='cuda:0')  
[48] Valid Loss: tensor(0.6878, device='cuda:0')  
[49] Valid Loss: tensor(0.7612, device='cuda:0')  
[50] Valid Loss: tensor(0.6885, device='cuda:0')  
[51] Valid Loss: tensor(0.6490, device='cuda:0')  
[52] Valid Loss: tensor(0.5946, device='cuda:0')  
[53] Valid Loss: tensor(0.8930, device='cuda:0')  
[54] Valid Loss: tensor(0.6061, device='cuda:0')  
[55] Valid Loss: tensor(0.5536, device='cuda:0')  
[56] Valid Loss: tensor(0.8548, device='cuda:0')  
[57] Valid Loss: tensor(0.7855, device='cuda:0')  
[58] Valid Loss: tensor(0.7608, device='cuda:0')  
[59] Valid Loss: tensor(0.6571, device='cuda:0')  
[60] Valid Loss: tensor(1.0200, device='cuda:0')  
[61] Valid Loss: tensor(0.6872, device='cuda:0')  
[62] Valid Loss: tensor(0.8671, device='cuda:0')  
[63] Valid Loss: tensor(0.6684, device='cuda:0')  
[64] Valid Loss: tensor(0.7372, device='cuda:0')  
[65] Valid Loss: tensor(0.8626, device='cuda:0')  
[66] Valid Loss: tensor(0.7116, device='cuda:0')  
[67] Valid Loss: tensor(0.7413, device='cuda:0')  
[68] Valid Loss: tensor(0.7252, device='cuda:0')  
[69] Valid Loss: tensor(0.5526, device='cuda:0')  
[70] Valid Loss: tensor(0.5798, device='cuda:0')  
[71] Valid Loss: tensor(0.8419, device='cuda:0')  
[72] Valid Loss: tensor(0.7504, device='cuda:0')  
[73] Valid Loss: tensor(0.6566, device='cuda:0')  
[74] Valid Loss: tensor(0.7643, device='cuda:0')  
[75] Valid Loss: tensor(0.8485, device='cuda:0')  
[76] Valid Loss: tensor(0.7761, device='cuda:0')  
[77] Valid Loss: tensor(0.6849, device='cuda:0')  
[78] Valid Loss: tensor(0.7821, device='cuda:0')  
[79] Valid Loss: tensor(0.6262, device='cuda:0')  
[80] Valid Loss: tensor(0.7223, device='cuda:0')  
[81] Valid Loss: tensor(0.6268, device='cuda:0')  
[82] Valid Loss: tensor(0.8519, device='cuda:0')  
[83] Valid Loss: tensor(0.8162, device='cuda:0')  
[84] Valid Loss: tensor(0.5918, device='cuda:0')  
[85] Valid Loss: tensor(0.7242, device='cuda:0')  
[86] Valid Loss: tensor(0.7178, device='cuda:0')  
[87] Valid Loss: tensor(0.8070, device='cuda:0')  
[88] Valid Loss: tensor(0.5803, device='cuda:0')  
[89] Valid Loss: tensor(0.8066, device='cuda:0')  
[90] Valid Loss: tensor(0.9206, device='cuda:0')  
[91] Valid Loss: tensor(0.7286, device='cuda:0')  
[92] Valid Loss: tensor(0.7761, device='cuda:0')

[93] Valid Loss: tensor(0.7692, device='cuda:0')  
[94] Valid Loss: tensor(0.8439, device='cuda:0')  
[95] Valid Loss: tensor(0.6844, device='cuda:0')  
[96] Valid Loss: tensor(0.8536, device='cuda:0')  
[97] Valid Loss: tensor(0.7938, device='cuda:0')  
[98] Valid Loss: tensor(0.8058, device='cuda:0')  
[99] Valid Loss: tensor(0.6076, device='cuda:0')  
[100] Valid Loss: tensor(0.7547, device='cuda:0')  
[101] Valid Loss: tensor(0.7257, device='cuda:0')  
[102] Valid Loss: tensor(0.9081, device='cuda:0')  
[103] Valid Loss: tensor(0.8569, device='cuda:0')  
[104] Valid Loss: tensor(0.6510, device='cuda:0')  
[105] Valid Loss: tensor(0.6652, device='cuda:0')  
[106] Valid Loss: tensor(0.6154, device='cuda:0')  
[107] Valid Loss: tensor(0.7473, device='cuda:0')  
[108] Valid Loss: tensor(0.8451, device='cuda:0')  
[109] Valid Loss: tensor(0.7520, device='cuda:0')  
[110] Valid Loss: tensor(0.7936, device='cuda:0')  
[111] Valid Loss: tensor(0.7646, device='cuda:0')  
[112] Valid Loss: tensor(0.8174, device='cuda:0')  
[113] Valid Loss: tensor(0.7562, device='cuda:0')  
[114] Valid Loss: tensor(0.6984, device='cuda:0')  
[115] Valid Loss: tensor(0.8262, device='cuda:0')  
[116] Valid Loss: tensor(0.8189, device='cuda:0')  
[117] Valid Loss: tensor(0.8393, device='cuda:0')  
[118] Valid Loss: tensor(0.6483, device='cuda:0')  
[119] Valid Loss: tensor(0.6004, device='cuda:0')  
[120] Valid Loss: tensor(0.9919, device='cuda:0')  
[121] Valid Loss: tensor(0.6678, device='cuda:0')  
[122] Valid Loss: tensor(0.7248, device='cuda:0')  
[123] Valid Loss: tensor(0.6563, device='cuda:0')  
[124] Valid Loss: tensor(0.8733, device='cuda:0')  
[125] Valid Loss: tensor(0.9398, device='cuda:0')  
[126] Valid Loss: tensor(0.5669, device='cuda:0')  
[127] Valid Loss: tensor(0.6124, device='cuda:0')  
[128] Valid Loss: tensor(0.8434, device='cuda:0')  
[129] Valid Loss: tensor(0.6708, device='cuda:0')  
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[216] Valid Loss: tensor(0.7474, device='cuda:0')  
[217] Valid Loss: tensor(0.7204, device='cuda:0')  
[218] Valid Loss: tensor(0.5834, device='cuda:0')  
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[232] Valid Loss: tensor(0.6003, device='cuda:0')  
[233] Valid Loss: tensor(0.6655, device='cuda:0')  
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[235] Valid Loss: tensor(0.6199, device='cuda:0')  
[236] Valid Loss: tensor(0.7438, device='cuda:0')

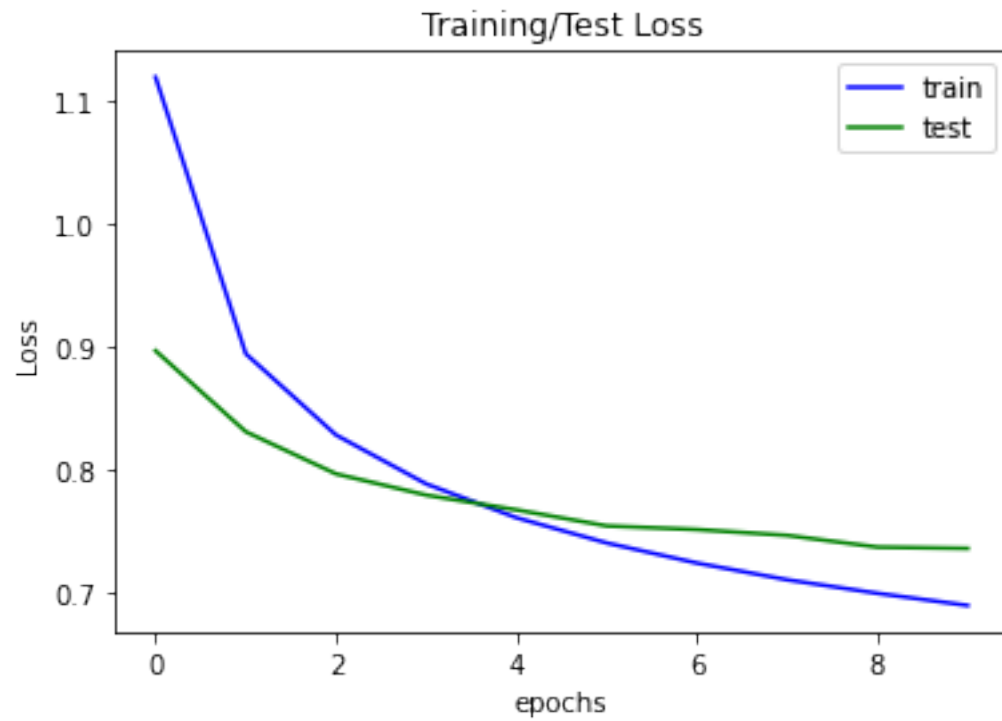


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[248] Valid Loss: tensor(0.9341, device='cuda:0')  
[249] Valid Loss: tensor(0.6902, device='cuda:0')  
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[251] Valid Loss: tensor(0.8109, device='cuda:0')  
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[262] Valid Loss: tensor(0.8826, device='cuda:0')  
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[273] Valid Loss: tensor(0.8662, device='cuda:0')  
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[284] Valid Loss: tensor(0.6722, device='cuda:0')

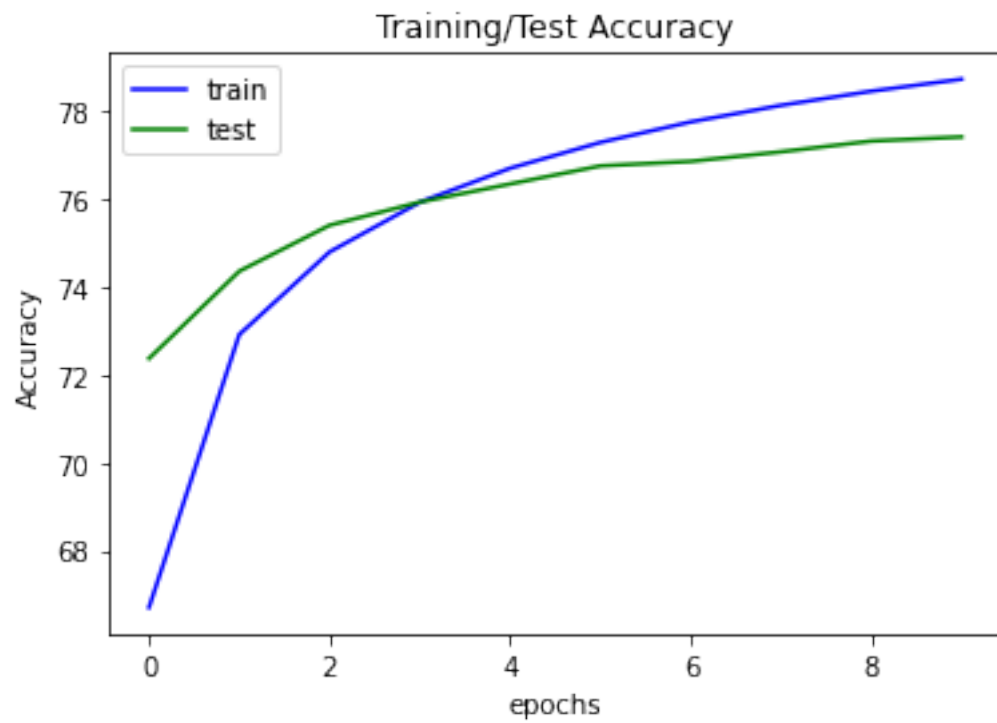
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[357] Valid Loss: tensor(0.8009, device='cuda:0')  
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[359] Valid Loss: tensor(0.7870, device='cuda:0')  
[360] Valid Loss: tensor(0.7079, device='cuda:0')  
[361] Valid Loss: tensor(0.7448, device='cuda:0')  
[362] Valid Loss: tensor(0.7179, device='cuda:0')  
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[366] Valid Loss: tensor(0.6662, device='cuda:0')  
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[371] Valid Loss: tensor(0.6236, device='cuda:0')  
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[376] Valid Loss: tensor(0.6266, device='cuda:0')  
[377] Valid Loss: tensor(0.9205, device='cuda:0')  
[378] Valid Loss: tensor(0.6171, device='cuda:0')  
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[380] Valid Loss: tensor(1.0983, device='cuda:0')

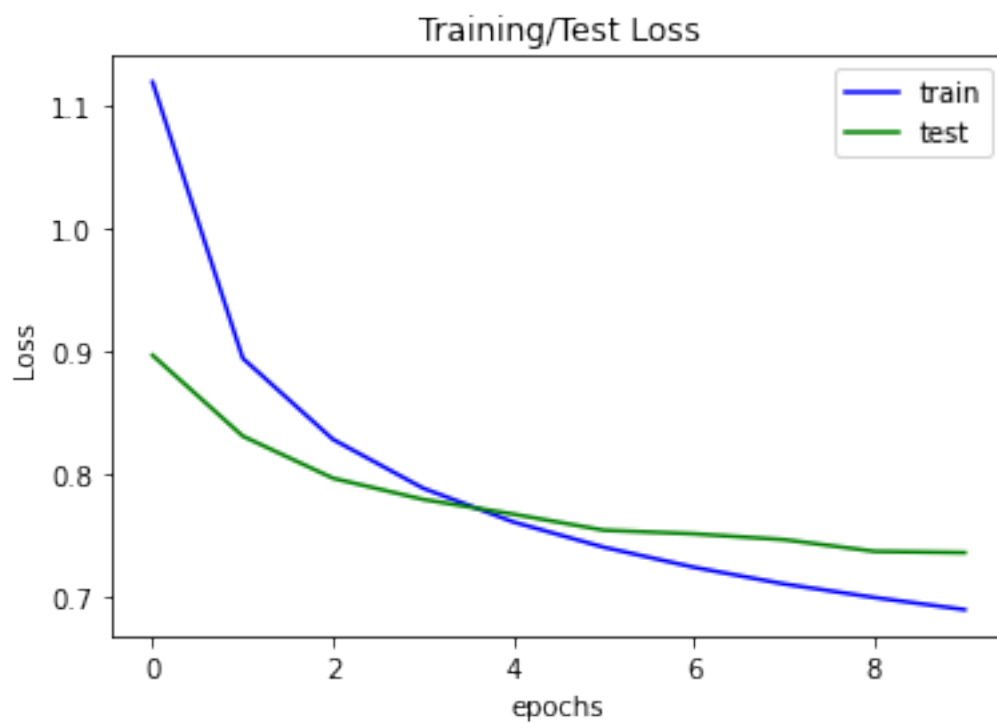
Testing Loss: 0.7353862481793081  
Testing Accuaracy: 77.39704192983322 %



```
[88]: training_plot_acc(Train_acc,Test_acc)
```



```
[89]: training_plot(Train_loss,Test_loss)
```



```
[90]: model = torch.load(os.path.join(Path, '{}.pt'.format('model_V2_' + str(9))))
```

```
[98]: test_loss, test_acc = val_model(model, val_loader, criterion=criterion)
```

```
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[1] Valid Loss: tensor(0.8796, device='cuda:0')
[2] Valid Loss: tensor(0.6652, device='cuda:0')
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[5] Valid Loss: tensor(0.6930, device='cuda:0')
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[35] Valid Loss: tensor(0.8638, device='cuda:0')
[36] Valid Loss: tensor(0.6564, device='cuda:0')
[37] Valid Loss: tensor(1.0045, device='cuda:0')
[38] Valid Loss: tensor(0.8157, device='cuda:0')
[39] Valid Loss: tensor(0.6757, device='cuda:0')
[40] Valid Loss: tensor(0.7651, device='cuda:0')
```

[41] Valid Loss: tensor(0.9153, device='cuda:0')  
[42] Valid Loss: tensor(0.7586, device='cuda:0')  
[43] Valid Loss: tensor(0.5532, device='cuda:0')  
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[84] Valid Loss: tensor(0.6183, device='cuda:0')  
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Testing Loss:  0.7401996966734958
Testing Accuaracy:  77.19743408996592 %
```

[ ]: