Model is Fashion\_MNIST\_CNN(  
 (encoder): ConvAutoencoder(  
 (conv1): Conv2d(1, 16, kernel\_size=(3, 3), stride=(1, 1), padding=(1, 1))  
 (conv2): Conv2d(16, 4, kernel\_size=(3, 3), stride=(1, 1), padding=(1, 1))  
 (pool): MaxPool2d(kernel\_size=2, stride=2, padding=0, dilation=1, ceil\_mode=False)  
 (t\_conv1): ConvTranspose2d(4, 16, kernel\_size=(2, 2), stride=(2, 2))  
 (t\_conv2): ConvTranspose2d(16, 1, kernel\_size=(2, 2), stride=(2, 2))  
 )  
 (layer1): Sequential(  
 (0): Conv2d(1, 32, kernel\_size=(3, 3), stride=(1, 1), padding=(1, 1))  
 (1): BatchNorm2d(32, eps=1e-05, momentum=0.1, affine=True, track\_running\_stats=True)  
 (2): ReLU()  
 (3): MaxPool2d(kernel\_size=2, stride=2, padding=0, dilation=1, ceil\_mode=False)  
 )  
 (layer2): Sequential(  
 (0): Conv2d(32, 64, kernel\_size=(3, 3), stride=(1, 1))  
 (1): BatchNorm2d(64, eps=1e-05, momentum=0.1, affine=True, track\_running\_stats=True)  
 (2): ReLU()  
 (3): MaxPool2d(kernel\_size=2, stride=2, padding=0, dilation=1, ceil\_mode=False)  
 )  
 (fc1): Linear(in\_features=2304, out\_features=600, bias=True)  
 (drop): Dropout2d(p=0.25, inplace=False)  
 (fc2): Linear(in\_features=600, out\_features=120, bias=True)  
 (fc3): Linear(in\_features=120, out\_features=10, bias=True)  
)  
\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  
epoch 0 | train loss : 2.312891721725464   
epoch 0 | Validation loss : 2.3070104122161865   
\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  
epoch 1 | train loss : 2.3069238662719727   
epoch 1 | Validation loss : 2.3070104122161865   
\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  
epoch 2 | train loss : 2.3069238662719727   
epoch 2 | Validation loss : 2.3070104122161865   
\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  
epoch 3 | train loss : 2.3069238662719727   
epoch 3 | Validation loss : 2.3070104122161865   
\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  
epoch 4 | train loss : 2.3069238662719727   
epoch 4 | Validation loss : 2.3070104122161865   
\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  
epoch 5 | train loss : 2.3069238662719727   
early stopping  
train accuracy : 0.09945832937955856  
Validation accuracy : 0.10241666436195374

run  
Attack Success Rate = 881 / 10000 = 0.0881  
Acuracy Rate = 9037 / 10000 = 0.9037