lab8q1

March 11, 2025

```
[5]: import torch
import torch.nn as nn
from torch.utils.data import Dataset, DataLoader, RandomSampler
from torch.utils.tensorboard import SummaryWriter

import pandas as pd
from tqdm.notebook import tqdm
import matplotlib.pyplot as plt

[11]: df = pd.read_csv('/home/student/Desktop/220962049_aiml/daily_csv.csv')
df['Price'].interpolate(method='linear', inplace=True)

prices = torch.Tensor(df['Price'].values)
prices = (prices - prices.min()) / (prices.max() - prices.min())

n = int(0.75 * len(prices))
train, test = prices[:n], prices[n:]
```

/tmp/ipykernel_7615/1615506271.py:2: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained assignment using an inplace method.

The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are setting values always behaves as a copy.

For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[col].method(value) instead, to perform the operation inplace on the original object.

df['Price'].interpolate(method='linear', inplace=True)

```
[13]: class TimeSeriesDataset(Dataset):
    def __init__(self, series, seq_length=10, device="cpu"):
        self.series = series
```

```
self.seq_length = seq_length
          def __len__(self):
              return len(self.series) - self.seq_length - 1
          def __getitem__(self, idx):
              X = self.series[idx:idx+self.seq_length].reshape(self.seq_length, -1)
              y = self.series[idx+self.seq_length]
              return X, y
[14]: train_dataset = TimeSeriesDataset(train, seq_length=10)
      test_dataset = TimeSeriesDataset(test, seq_length=10)
      train_data = DataLoader(train_dataset, batch_size=256, shuffle=True)
      test_data = DataLoader(test_dataset, batch_size=1, shuffle=False)
[15]: class RNN(nn.Module):
          def __init__(self, input_size, hidden_size):
              super(RNN, self). init ()
              self.rnn = nn.RNN(input size, hidden size, batch first=True)
              self.fc = nn.Sequential(
                  nn.ReLU(),
                  nn.Linear(in_features=hidden_size, out_features=1),
              )
          def forward(self, x):
              output, status = self.rnn(x)
              output = output[:, -1, :]
              output = self.fc(output)
              return output
[16]: input_size = 1
      hidden_size = 5
      learning_rate = 1e-4
      num_epochs = 1500
      model = RNN(input_size, hidden_size)
      criterion = nn.MSELoss()
      optimizer = torch.optim.Adam(model.parameters(), lr=learning_rate)
[24]: for epoch in range(num_epochs):
          print(f"Epoch {epoch+1}/{num_epochs}") # Print progress manually
```

```
for i, (batch, targets) in enumerate(train_data):
         outs = model(batch).reshape(-1)
        optimizer.zero_grad()
        loss = criterion(outs, targets)
        loss.backward()
        optimizer.step()
         # Print progress for every 10th batch (optional)
        if i % 10 == 0:
             print(f" Batch {i+1}/{len(train_data)}, Loss: {loss.item()}")
    if epoch % 50 == 0:
        print(f"After epoch {epoch}, loss={loss.item()}")
Epoch 1/1500
 Batch 1/18, Loss: 0.11919968575239182
 Batch 11/18, Loss: 0.12547309696674347
After epoch 0, loss=0.13013996183872223
Epoch 2/1500
 Batch 1/18, Loss: 0.12171542644500732
 Batch 11/18, Loss: 0.1268751472234726
Epoch 3/1500
 Batch 1/18, Loss: 0.11319871991872787
  Batch 11/18, Loss: 0.11807101964950562
Exception ignored in: <function tqdm.__del__ at 0x7b7bac2d1440>
Traceback (most recent call last):
  File "/home/student/Desktop/220962049_aiml/.venv/lib/python3.12/site-
packages/tqdm/std.py", line 1148, in __del__
    self.close()
 File "/home/student/Desktop/220962049_aiml/.venv/lib/python3.12/site-
packages/tqdm/notebook.py", line 279, in close
    self.disp(bar_style='danger', check_delay=False)
AttributeError: 'tqdm notebook' object has no attribute 'disp'
Exception ignored in: <function tqdm.__del__ at 0x7b7bac2d1440>
Traceback (most recent call last):
  File "/home/student/Desktop/220962049_aiml/.venv/lib/python3.12/site-
packages/tqdm/std.py", line 1148, in __del__
    self.close()
  File "/home/student/Desktop/220962049_aiml/.venv/lib/python3.12/site-
packages/tqdm/notebook.py", line 279, in close
    self.disp(bar_style='danger', check_delay=False)
AttributeError: 'tqdm_notebook' object has no attribute 'disp'
Exception ignored in: <function tqdm.__del__ at 0x7b7bac2d1440>
Traceback (most recent call last):
```

```
File "/home/student/Desktop/220962049_aiml/.venv/lib/python3.12/site-
packages/tqdm/std.py", line 1148, in __del__
    self.close()
 File "/home/student/Desktop/220962049_aiml/.venv/lib/python3.12/site-
packages/tqdm/notebook.py", line 279, in close
    self.disp(bar_style='danger', check_delay=False)
AttributeError: 'tqdm_notebook' object has no attribute 'disp'
Epoch 4/1500
 Batch 1/18, Loss: 0.09817495942115784
  Batch 11/18, Loss: 0.09976417571306229
Epoch 5/1500
  Batch 1/18, Loss: 0.10425276309251785
 Batch 11/18, Loss: 0.10317812860012054
Epoch 6/1500
 Batch 1/18, Loss: 0.10056265443563461
 Batch 11/18, Loss: 0.08929745107889175
Epoch 7/1500
 Batch 1/18, Loss: 0.08626741915941238
 Batch 11/18, Loss: 0.08390000462532043
Epoch 8/1500
 Batch 1/18, Loss: 0.0923704281449318
 Batch 11/18, Loss: 0.08358245342969894
Epoch 9/1500
 Batch 1/18, Loss: 0.0924082100391388
 Batch 11/18, Loss: 0.07853900641202927
Epoch 10/1500
 Batch 1/18, Loss: 0.07400530576705933
  Batch 11/18, Loss: 0.07850398123264313
Epoch 11/1500
  Batch 1/18, Loss: 0.07112006843090057
  Batch 11/18, Loss: 0.08380073308944702
Epoch 12/1500
 Batch 1/18, Loss: 0.07653547078371048
 Batch 11/18, Loss: 0.0697365403175354
Epoch 13/1500
 Batch 1/18, Loss: 0.06071791052818298
 Batch 11/18, Loss: 0.06842710822820663
Epoch 14/1500
 Batch 1/18, Loss: 0.061407480388879776
 Batch 11/18, Loss: 0.06432634592056274
Epoch 15/1500
 Batch 1/18, Loss: 0.06364810466766357
  Batch 11/18, Loss: 0.05794809013605118
Epoch 16/1500
  Batch 1/18, Loss: 0.059926629066467285
  Batch 11/18, Loss: 0.057737745344638824
```

Epoch 17/1500 Batch 1/18, Loss: 0.053283706307411194 Batch 11/18, Loss: 0.05210249125957489 Epoch 18/1500 Batch 1/18, Loss: 0.04901367798447609 Batch 11/18, Loss: 0.04667329415678978 Epoch 19/1500 Batch 1/18, Loss: 0.047378674149513245 Batch 11/18, Loss: 0.047123752534389496 Epoch 20/1500 Batch 1/18, Loss: 0.053435590118169785 Batch 11/18, Loss: 0.04450052231550217 Epoch 21/1500 Batch 1/18, Loss: 0.04419125244021416 Batch 11/18, Loss: 0.054750747978687286 Epoch 22/1500 Batch 1/18, Loss: 0.037631865590810776 Batch 11/18, Loss: 0.0428951159119606 Epoch 23/1500 Batch 1/18, Loss: 0.040530793368816376 Batch 11/18, Loss: 0.037300579249858856 Epoch 24/1500 Batch 1/18, Loss: 0.036558955907821655 Batch 11/18, Loss: 0.0347294919192791 Epoch 25/1500 Batch 1/18, Loss: 0.03782539814710617 Batch 11/18, Loss: 0.030268365517258644 Epoch 26/1500 Batch 1/18, Loss: 0.02717006951570511 Batch 11/18, Loss: 0.03691656142473221 Epoch 27/1500 Batch 1/18, Loss: 0.03258352726697922 Batch 11/18, Loss: 0.03820253908634186 Epoch 28/1500 Batch 1/18, Loss: 0.029631100594997406 Batch 11/18, Loss: 0.03200201690196991 Epoch 29/1500 Batch 1/18, Loss: 0.028743473812937737 Batch 11/18, Loss: 0.03519726172089577 Epoch 30/1500 Batch 1/18, Loss: 0.03279673680663109 Batch 11/18, Loss: 0.02471812628209591 Epoch 31/1500 Batch 1/18, Loss: 0.02542589232325554 Batch 11/18, Loss: 0.02474045753479004 Epoch 32/1500 Batch 1/18, Loss: 0.025412149727344513

Epoch 33/1500 Batch 1/18, Loss: 0.019508862867951393 Batch 11/18, Loss: 0.026622992008924484 Epoch 34/1500 Batch 1/18, Loss: 0.023906612768769264 Batch 11/18, Loss: 0.02518554963171482 Epoch 35/1500 Batch 1/18, Loss: 0.025886747986078262 Batch 11/18, Loss: 0.024156460538506508 Epoch 36/1500 Batch 1/18, Loss: 0.01731586456298828 Batch 11/18, Loss: 0.02379436418414116 Epoch 37/1500 Batch 1/18, Loss: 0.021683717146515846 Batch 11/18, Loss: 0.01944255270063877 Epoch 38/1500 Batch 1/18, Loss: 0.016953034326434135 Batch 11/18, Loss: 0.016294317319989204 Epoch 39/1500 Batch 1/18, Loss: 0.02054603025317192 Batch 11/18, Loss: 0.017653122544288635 Epoch 40/1500 Batch 1/18, Loss: 0.019178839400410652 Batch 11/18, Loss: 0.01413517165929079 Epoch 41/1500 Batch 1/18, Loss: 0.015517916530370712 Batch 11/18, Loss: 0.021069487556815147 Epoch 42/1500 Batch 1/18, Loss: 0.01886022463440895 Batch 11/18, Loss: 0.019275791943073273 Epoch 43/1500 Batch 1/18, Loss: 0.01688254624605179 Batch 11/18, Loss: 0.014284031465649605 Epoch 44/1500 Batch 1/18, Loss: 0.01702880673110485 Batch 11/18, Loss: 0.018474156036973 Epoch 45/1500 Batch 1/18, Loss: 0.019343214109539986 Batch 11/18, Loss: 0.016045227646827698 Epoch 46/1500 Batch 1/18, Loss: 0.01638827659189701 Batch 11/18, Loss: 0.018140176311135292 Epoch 47/1500 Batch 1/18, Loss: 0.016614582389593124 Batch 11/18, Loss: 0.012501448392868042 Epoch 48/1500 Batch 1/18, Loss: 0.015583965927362442

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Epoch 49/1500
  Batch 1/18, Loss: 0.012752596288919449
 Batch 11/18, Loss: 0.015753500163555145
Epoch 50/1500
 Batch 1/18, Loss: 0.013168396428227425
 Batch 11/18, Loss: 0.01829461008310318
Epoch 51/1500
 Batch 1/18, Loss: 0.0163740087300539
 Batch 11/18, Loss: 0.012756677344441414
After epoch 50, loss=0.019850116223096848
Epoch 52/1500
  Batch 1/18, Loss: 0.012755004689097404
  Batch 11/18, Loss: 0.010837454348802567
Epoch 53/1500
  Batch 1/18, Loss: 0.015869414433836937
 Batch 11/18, Loss: 0.012739839032292366
Epoch 54/1500
 Batch 1/18, Loss: 0.015940586104989052
 Batch 11/18, Loss: 0.015530644915997982
Epoch 55/1500
 Batch 1/18, Loss: 0.016219688579440117
 Batch 11/18, Loss: 0.011217596009373665
Epoch 56/1500
 Batch 1/18, Loss: 0.012657753191888332
 Batch 11/18, Loss: 0.011602073907852173
Epoch 57/1500
  Batch 1/18, Loss: 0.018446695059537888
  Batch 11/18, Loss: 0.01124604232609272
Epoch 58/1500
  Batch 1/18, Loss: 0.014885067008435726
  Batch 11/18, Loss: 0.01330831740051508
Epoch 59/1500
  Batch 1/18, Loss: 0.014627283439040184
 Batch 11/18, Loss: 0.012895794585347176
Epoch 60/1500
 Batch 1/18, Loss: 0.012954301200807095
 Batch 11/18, Loss: 0.011169373989105225
Epoch 61/1500
 Batch 1/18, Loss: 0.013792087323963642
 Batch 11/18, Loss: 0.015446601435542107
Epoch 62/1500
 Batch 1/18, Loss: 0.011029817163944244
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Epoch 63/1500
Batch 1/18, Loss: 0.014383373782038689
Batch 11/18, Loss: 0.009934191592037678
Epoch 64/1500

Batch 11/18, Loss: 0.013492543250322342

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Batch 11/18, Loss: 0.013011462986469269
Epoch 65/1500
Batch 1/18, Loss: 0.014694955199956894
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Epoch 66/1500

Batch 1/18, Loss: 0.0129823237657547
Batch 11/18, Loss: 0.0146065354347229

Epoch 67/1500

Batch 1/18, Loss: 0.013491916470229626
Batch 11/18, Loss: 0.012277694419026375

Epoch 68/1500

Batch 1/18, Loss: 0.011494098231196404 Batch 11/18, Loss: 0.012782682664692402 Epoch 69/1500

Batch 1/18, Loss: 0.016101863235235214 Batch 11/18, Loss: 0.010606858879327774 Epoch 70/1500

Batch 1/18, Loss: 0.01577851176261902 Batch 11/18, Loss: 0.011916328221559525 Epoch 71/1500

Batch 1/18, Loss: 0.012009231373667717 Batch 11/18, Loss: 0.013654611073434353 Epoch 72/1500

Batch 1/18, Loss: 0.013032176531851292 Batch 11/18, Loss: 0.009306224063038826 Epoch 73/1500

Batch 1/18, Loss: 0.00990939512848854 Batch 11/18, Loss: 0.01341593824326992 Epoch 74/1500

Batch 1/18, Loss: 0.011589569970965385 Batch 11/18, Loss: 0.012754740193486214 Epoch 75/1500

Batch 1/18, Loss: 0.014301925897598267 Batch 11/18, Loss: 0.015328848734498024 Epoch 76/1500

Batch 1/18, Loss: 0.012936324812471867 Batch 11/18, Loss: 0.01274186559021473 Epoch 77/1500

Batch 1/18, Loss: 0.00948093831539154 Batch 11/18, Loss: 0.011729426681995392 Epoch 78/1500

Batch 1/18, Loss: 0.009572618640959263 Batch 11/18, Loss: 0.014506825245916843 Epoch 79/1500

Batch 1/18, Loss: 0.011179560795426369 Batch 11/18, Loss: 0.010816387832164764 Epoch 80/1500

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Batch 11/18, Loss: 0.01051533967256546
Epoch 81/1500
```

Batch 1/18, Loss: 0.011470876634120941 Batch 11/18, Loss: 0.014126540161669254 Epoch 82/1500

Batch 1/18, Loss: 0.013375602662563324 Batch 11/18, Loss: 0.012063518166542053 Epoch 83/1500

Batch 1/18, Loss: 0.014184627681970596 Batch 11/18, Loss: 0.014897560700774193 Epoch 84/1500

Batch 1/18, Loss: 0.011713425628840923 Batch 11/18, Loss: 0.011640624143183231 Epoch 85/1500

Batch 1/18, Loss: 0.010660212486982346 Batch 11/18, Loss: 0.01707529090344906 Epoch 86/1500

Batch 1/18, Loss: 0.014977613463997841 Batch 11/18, Loss: 0.012759500183165073 Epoch 87/1500

Batch 1/18, Loss: 0.013676708564162254 Batch 11/18, Loss: 0.013046277686953545 Epoch 88/1500

Batch 1/18, Loss: 0.012334668077528477 Batch 11/18, Loss: 0.008647289127111435 Epoch 89/1500

Batch 1/18, Loss: 0.009766926057636738 Batch 11/18, Loss: 0.012655770406126976 Epoch 90/1500

Batch 1/18, Loss: 0.01476377248764038 Batch 11/18, Loss: 0.012897837907075882 Epoch 91/1500

Batch 1/18, Loss: 0.011674923822283745
Batch 11/18, Loss: 0.010584375821053982
Epoch 92/1500

Batch 1/18, Loss: 0.01270223781466484 Batch 11/18, Loss: 0.011971513740718365 Epoch 93/1500

Batch 1/18, Loss: 0.01313721388578415 Batch 11/18, Loss: 0.010498256422579288 Epoch 94/1500

Batch 1/18, Loss: 0.012029740959405899 Batch 11/18, Loss: 0.011554841883480549 Epoch 95/1500

Batch 1/18, Loss: 0.010429956950247288 Batch 11/18, Loss: 0.012511062435805798 Epoch 96/1500

Epoch 97/1500

Batch 1/18, Loss: 0.010473729111254215 Batch 11/18, Loss: 0.013740132562816143 Epoch 98/1500

Batch 1/18, Loss: 0.012176587246358395 Batch 11/18, Loss: 0.011260493658483028 Epoch 99/1500

Batch 1/18, Loss: 0.012131910771131516
Batch 11/18, Loss: 0.01163032092154026

Epoch 100/1500

Batch 1/18, Loss: 0.010912768542766571 Batch 11/18, Loss: 0.013794226571917534 Epoch 101/1500

Batch 1/18, Loss: 0.012865761294960976 Batch 11/18, Loss: 0.01184086874127388 After epoch 100, loss=0.008248582482337952 Epoch 102/1500

Batch 1/18, Loss: 0.011897222138941288 Batch 11/18, Loss: 0.011880390346050262 Epoch 103/1500

Batch 1/18, Loss: 0.011985288001596928 Batch 11/18, Loss: 0.01550944335758686 Epoch 104/1500

Batch 1/18, Loss: 0.01019345223903656 Batch 11/18, Loss: 0.014187385328114033 Epoch 105/1500

Batch 1/18, Loss: 0.01017213799059391 Batch 11/18, Loss: 0.009686053730547428 Epoch 106/1500

Batch 1/18, Loss: 0.011869095265865326 Batch 11/18, Loss: 0.011027163825929165 Epoch 107/1500

Batch 1/18, Loss: 0.01253154780715704 Batch 11/18, Loss: 0.013632556423544884 Epoch 108/1500

Batch 1/18, Loss: 0.010645455680787563 Batch 11/18, Loss: 0.012108558788895607 Epoch 109/1500

Batch 1/18, Loss: 0.01807514764368534 Batch 11/18, Loss: 0.008697223849594593 Epoch 110/1500

Batch 1/18, Loss: 0.012179573066532612 Batch 11/18, Loss: 0.01028041634708643 Epoch 111/1500

Batch 1/18, Loss: 0.012585354968905449
Batch 11/18, Loss: 0.010206323117017746
Epoch 112/1500

Batch 1/18, Loss: 0.012438973411917686 Batch 11/18, Loss: 0.010970111936330795

Epoch 113/1500

Batch 1/18, Loss: 0.011028694920241833 Batch 11/18, Loss: 0.010516781359910965

Epoch 114/1500

Batch 1/18, Loss: 0.011774804443120956 Batch 11/18, Loss: 0.010645749978721142 Epoch 115/1500

Batch 1/18, Loss: 0.011291425675153732 Batch 11/18, Loss: 0.012545233592391014 Epoch 116/1500

Batch 1/18, Loss: 0.013032741844654083 Batch 11/18, Loss: 0.00891091674566269 Epoch 117/1500

Batch 1/18, Loss: 0.01174832321703434 Batch 11/18, Loss: 0.010439329780638218 Epoch 118/1500

Batch 1/18, Loss: 0.009797541424632072 Batch 11/18, Loss: 0.012310435995459557 Epoch 119/1500

Batch 1/18, Loss: 0.009817964397370815 Batch 11/18, Loss: 0.009955613873898983 Epoch 120/1500

Batch 1/18, Loss: 0.013133379630744457 Batch 11/18, Loss: 0.0110784862190485 Epoch 121/1500

Batch 1/18, Loss: 0.012091806158423424 Batch 11/18, Loss: 0.010681312531232834 Epoch 122/1500

Batch 1/18, Loss: 0.0072570061311125755 Batch 11/18, Loss: 0.008852193132042885 Epoch 123/1500

Batch 1/18, Loss: 0.010067836381494999 Batch 11/18, Loss: 0.010313239879906178 Epoch 124/1500

Batch 1/18, Loss: 0.009068385697901249
Batch 11/18, Loss: 0.009043354541063309
Epoch 125/1500

Batch 1/18, Loss: 0.00832442194223404 Batch 11/18, Loss: 0.009902918711304665 Epoch 126/1500

Batch 1/18, Loss: 0.009921468794345856 Batch 11/18, Loss: 0.0080257598310709 Epoch 127/1500

Batch 1/18, Loss: 0.010320592671632767 Batch 11/18, Loss: 0.00951284822076559 Epoch 128/1500 Batch 1/18, Loss: 0.010476307943463326 Batch 11/18, Loss: 0.010625478811562061

Epoch 129/1500

Batch 1/18, Loss: 0.011480502784252167 Batch 11/18, Loss: 0.011905673891305923 Epoch 130/1500

Batch 1/18, Loss: 0.011210361495614052 Batch 11/18, Loss: 0.009853621013462543 Epoch 131/1500

Batch 1/18, Loss: 0.010110026225447655 Batch 11/18, Loss: 0.007956698536872864 Epoch 132/1500

Batch 1/18, Loss: 0.008527816273272038 Batch 11/18, Loss: 0.00815601460635662 Epoch 133/1500

Batch 1/18, Loss: 0.009730497375130653 Batch 11/18, Loss: 0.008817559108138084 Epoch 134/1500

Batch 1/18, Loss: 0.006857226602733135 Batch 11/18, Loss: 0.008834509178996086 Epoch 135/1500

Batch 1/18, Loss: 0.01158105581998825 Batch 11/18, Loss: 0.008974399417638779 Epoch 136/1500

Batch 1/18, Loss: 0.010183501057326794 Batch 11/18, Loss: 0.007668075151741505 Epoch 137/1500

Batch 1/18, Loss: 0.0094751613214612 Batch 11/18, Loss: 0.007855708710849285 Epoch 138/1500

Batch 1/18, Loss: 0.009254863485693932 Batch 11/18, Loss: 0.008147219195961952 Epoch 139/1500

Batch 1/18, Loss: 0.008240493945777416
Batch 11/18, Loss: 0.008677270263433456
Epoch 140/1500

Batch 1/18, Loss: 0.00795577559620142 Batch 11/18, Loss: 0.009723477996885777 Epoch 141/1500

Batch 1/18, Loss: 0.009363860823214054 Batch 11/18, Loss: 0.007870540954172611 Epoch 142/1500

Batch 1/18, Loss: 0.007562301121652126 Batch 11/18, Loss: 0.006120089907199144 Epoch 143/1500

Batch 1/18, Loss: 0.008716191165149212 Batch 11/18, Loss: 0.008148238994181156 Epoch 144/1500 Batch 1/18, Loss: 0.006821032147854567 Batch 11/18, Loss: 0.00868980959057808

Epoch 145/1500

Batch 1/18, Loss: 0.010798023082315922 Batch 11/18, Loss: 0.0056725176982581615

Epoch 146/1500

Batch 1/18, Loss: 0.007509940769523382 Batch 11/18, Loss: 0.00726203853264451 Epoch 147/1500

Batch 1/18, Loss: 0.008911577053368092 Batch 11/18, Loss: 0.007866132073104382 Epoch 148/1500

Batch 1/18, Loss: 0.008039620704948902 Batch 11/18, Loss: 0.006184180732816458 Epoch 149/1500

Batch 1/18, Loss: 0.008661567233502865 Batch 11/18, Loss: 0.005483276676386595 Epoch 150/1500

Batch 1/18, Loss: 0.008446458727121353
Batch 11/18, Loss: 0.006850840989500284
Epoch 151/1500

Batch 1/18, Loss: 0.00913327932357788
Batch 11/18, Loss: 0.007715923711657524
After epoch 150, loss=0.0071191550232470036
Epoch 152/1500

Batch 1/18, Loss: 0.008169169537723064 Batch 11/18, Loss: 0.007051251363009214 Epoch 153/1500

Batch 1/18, Loss: 0.0073197511956095695 Batch 11/18, Loss: 0.008058629930019379 Epoch 154/1500

Batch 1/18, Loss: 0.009141417220234871 Batch 11/18, Loss: 0.006474134512245655 Epoch 155/1500

Batch 1/18, Loss: 0.007300377823412418
Batch 11/18, Loss: 0.004729736130684614
Epoch 156/1500

Batch 1/18, Loss: 0.008158208802342415
Batch 11/18, Loss: 0.004758807830512524
Epoch 157/1500

Batch 1/18, Loss: 0.006397499702870846 Batch 11/18, Loss: 0.00585567532107234 Epoch 158/1500

Batch 1/18, Loss: 0.00460166297852993
Batch 11/18, Loss: 0.005201433785259724
Epoch 159/1500

Batch 1/18, Loss: 0.006143891718238592 Batch 11/18, Loss: 0.006169231608510017 Epoch 160/1500

Batch 1/18, Loss: 0.004218133166432381 Batch 11/18, Loss: 0.008774969726800919

Epoch 161/1500

Batch 1/18, Loss: 0.011157157830893993 Batch 11/18, Loss: 0.0066225966438651085 Epoch 162/1500

Batch 1/18, Loss: 0.006134563125669956 Batch 11/18, Loss: 0.005011905916035175 Epoch 163/1500

Batch 1/18, Loss: 0.005209119990468025 Batch 11/18, Loss: 0.007328060921281576 Epoch 164/1500

Batch 1/18, Loss: 0.006190174259245396 Batch 11/18, Loss: 0.006789737846702337 Epoch 165/1500

Batch 1/18, Loss: 0.007275846321135759 Batch 11/18, Loss: 0.005866451654583216 Epoch 166/1500

Batch 1/18, Loss: 0.003925101365894079 Batch 11/18, Loss: 0.0046523152850568295 Epoch 167/1500

Batch 1/18, Loss: 0.005167204421013594 Batch 11/18, Loss: 0.006385009735822678 Epoch 168/1500

Batch 1/18, Loss: 0.008628672920167446
Batch 11/18, Loss: 0.006187771447002888
Epoch 169/1500

Batch 1/18, Loss: 0.004847072996199131 Batch 11/18, Loss: 0.005218314938247204 Epoch 170/1500

Batch 1/18, Loss: 0.004706583451479673 Batch 11/18, Loss: 0.004970311652868986 Epoch 171/1500

Batch 1/18, Loss: 0.004580544773489237 Batch 11/18, Loss: 0.005468903109431267 Epoch 172/1500

Batch 1/18, Loss: 0.002807619282975793 Batch 11/18, Loss: 0.004611582960933447 Epoch 173/1500

Batch 1/18, Loss: 0.005302994512021542 Batch 11/18, Loss: 0.004187478683888912 Epoch 174/1500

Batch 1/18, Loss: 0.006795880384743214 Batch 11/18, Loss: 0.004945945926010609 Epoch 175/1500

Batch 1/18, Loss: 0.0037385430186986923 Batch 11/18, Loss: 0.006032210774719715 Epoch 176/1500

Batch 1/18, Loss: 0.0036923508159816265 Batch 11/18, Loss: 0.0034554239828139544

Epoch 177/1500

Batch 1/18, Loss: 0.004213876556605101

Batch 11/18, Loss: 0.0030578451696783304

Epoch 178/1500

Batch 1/18, Loss: 0.003971288446336985

Batch 11/18, Loss: 0.003625888144597411

Epoch 179/1500

Batch 1/18, Loss: 0.004131704103201628

Batch 11/18, Loss: 0.005268700420856476

Epoch 180/1500

Batch 1/18, Loss: 0.00230066548101604

Batch 11/18, Loss: 0.005669958423823118

Epoch 181/1500

Batch 1/18, Loss: 0.0034510998521000147

Batch 11/18, Loss: 0.0032081608660519123

Epoch 182/1500

Batch 1/18, Loss: 0.004217281471937895

Batch 11/18, Loss: 0.0044597238302230835

Epoch 183/1500

Batch 1/18, Loss: 0.004962775856256485

Batch 11/18, Loss: 0.005376542452722788

Epoch 184/1500

Batch 1/18, Loss: 0.0038851744029670954

Batch 11/18, Loss: 0.0021433786023408175

Epoch 185/1500

Batch 1/18, Loss: 0.002132992260158062

Batch 11/18, Loss: 0.003961825277656317

Epoch 186/1500

Batch 1/18, Loss: 0.00265623745508492

Batch 11/18, Loss: 0.0025536164175719023

Epoch 187/1500

Batch 1/18, Loss: 0.002852151170372963

Batch 11/18, Loss: 0.004350751638412476

Epoch 188/1500

Batch 1/18, Loss: 0.0023803021758794785

Batch 11/18, Loss: 0.0020179750863462687

Epoch 189/1500

Batch 1/18, Loss: 0.002567419782280922

Batch 11/18, Loss: 0.003402336500585079

Epoch 190/1500

Batch 1/18, Loss: 0.0033298139460384846

Batch 11/18, Loss: 0.002305407542735338

Epoch 191/1500

Batch 1/18, Loss: 0.0023977328091859818

Epoch 192/1500

Batch 1/18, Loss: 0.00285467435605824 Batch 11/18, Loss: 0.002237729961052537

Epoch 193/1500

Batch 1/18, Loss: 0.004062688909471035 Batch 11/18, Loss: 0.001911335508339107 Epoch 194/1500

Batch 1/18, Loss: 0.003253903007134795 Batch 11/18, Loss: 0.0010424487991258502 Epoch 195/1500

Batch 1/18, Loss: 0.004403546452522278
Batch 11/18, Loss: 0.0015275697223842144
Epoch 196/1500

Batch 1/18, Loss: 0.003739849431440234 Batch 11/18, Loss: 0.001630978542380035 Epoch 197/1500

Batch 1/18, Loss: 0.003124634735286236 Batch 11/18, Loss: 0.0021893358789384365 Epoch 198/1500

Batch 1/18, Loss: 0.0037010132800787687 Batch 11/18, Loss: 0.0030350268352776766 Epoch 199/1500

Batch 1/18, Loss: 0.003649415448307991 Batch 11/18, Loss: 0.0027605195064097643 Epoch 200/1500

Batch 1/18, Loss: 0.002962829079478979 Batch 11/18, Loss: 0.0035187744069844484 Epoch 201/1500

Batch 1/18, Loss: 0.0019491770071908832 Batch 11/18, Loss: 0.0013782782480120659 After epoch 200, loss=0.0022767563350498676 Epoch 202/1500

Batch 1/18, Loss: 0.0020684420596808195 Batch 11/18, Loss: 0.0013816449791193008 Epoch 203/1500

Batch 1/18, Loss: 0.0019008744275197387 Batch 11/18, Loss: 0.001956603256985545 Epoch 204/1500

Batch 1/18, Loss: 0.0031148134730756283 Batch 11/18, Loss: 0.0020586259197443724 Epoch 205/1500

Batch 1/18, Loss: 0.0016092099249362946
Batch 11/18, Loss: 0.0017256720457226038
Epoch 206/1500

Batch 1/18, Loss: 0.0018364745192229748
Batch 11/18, Loss: 0.0012389181647449732
Epoch 207/1500

Epoch 208/1500

Batch 1/18, Loss: 0.0023471389431506395 Batch 11/18, Loss: 0.002824988681823015 Epoch 209/1500

Batch 1/18, Loss: 0.002537689171731472 Batch 11/18, Loss: 0.0006240790244191885 Epoch 210/1500

Batch 1/18, Loss: 0.0020264042541384697 Batch 11/18, Loss: 0.0016706380993127823 Epoch 211/1500

Batch 1/18, Loss: 0.00239162496291101 Batch 11/18, Loss: 0.0023059675004333258 Epoch 212/1500

Batch 1/18, Loss: 0.0005473801866173744
Batch 11/18, Loss: 0.0034052301198244095
Epoch 213/1500

Batch 1/18, Loss: 0.0025528189726173878 Batch 11/18, Loss: 0.0022433416452258825 Epoch 214/1500

Batch 1/18, Loss: 0.003018102841451764
Batch 11/18, Loss: 0.0012890466023236513
Epoch 215/1500

Batch 1/18, Loss: 0.001278018462471664 Batch 11/18, Loss: 0.0011252722470089793 Epoch 216/1500

Batch 1/18, Loss: 0.001384551404044032 Batch 11/18, Loss: 0.0021345228888094425 Epoch 217/1500

Batch 1/18, Loss: 0.0022494217846542597 Batch 11/18, Loss: 0.0022588646970689297 Epoch 218/1500

Batch 1/18, Loss: 0.002596033737063408 Batch 11/18, Loss: 0.003101583570241928 Epoch 219/1500

Batch 1/18, Loss: 0.0007501668878830969 Batch 11/18, Loss: 0.0023266186472028494 Epoch 220/1500

Batch 1/18, Loss: 0.001637439476326108 Batch 11/18, Loss: 0.003517134115099907 Epoch 221/1500

Batch 1/18, Loss: 0.003593506058678031 Batch 11/18, Loss: 0.0015330702299252152 Epoch 222/1500

Batch 1/18, Loss: 0.002356382552534342 Batch 11/18, Loss: 0.0014823527308180928 Epoch 223/1500

Epoch 224/1500

Batch 1/18, Loss: 0.0021179220639169216
Batch 11/18, Loss: 0.001641634269617498
Epoch 225/1500

Batch 1/18, Loss: 0.0026115907821804285 Batch 11/18, Loss: 0.0025494161527603865 Epoch 226/1500

Batch 1/18, Loss: 0.0016374487895518541
Batch 11/18, Loss: 0.001380100380629301

Epoch 227/1500

Batch 1/18, Loss: 0.0013527398696169257 Batch 11/18, Loss: 0.0013395545538514853 Epoch 228/1500

Batch 1/18, Loss: 0.0015529199736192822 Batch 11/18, Loss: 0.0015446941833943129 Epoch 229/1500

Batch 1/18, Loss: 0.0017013425240293145 Batch 11/18, Loss: 0.0010080070933327079 Epoch 230/1500

Batch 1/18, Loss: 0.0019960266072303057 Batch 11/18, Loss: 0.002255941042676568 Epoch 231/1500

Batch 1/18, Loss: 0.0020544962026178837 Batch 11/18, Loss: 0.0029514366760849953 Epoch 232/1500

Batch 1/18, Loss: 0.001961307367309928 Batch 11/18, Loss: 0.0019096139585599303 Epoch 233/1500

Batch 1/18, Loss: 0.0008531241328455508 Batch 11/18, Loss: 0.001257183263078332 Epoch 234/1500

Batch 1/18, Loss: 0.001150214928202331 Batch 11/18, Loss: 0.0013833915581926703 Epoch 235/1500

Batch 1/18, Loss: 0.001254664151929319
Batch 11/18, Loss: 0.0017119674012064934
Epoch 236/1500

Batch 1/18, Loss: 0.0009624020894989371 Batch 11/18, Loss: 0.00039380526868626475 Epoch 237/1500

Batch 1/18, Loss: 0.0012863688170909882 Batch 11/18, Loss: 0.0020527075976133347 Epoch 238/1500

Batch 1/18, Loss: 0.0020521972328424454 Batch 11/18, Loss: 0.0013766404008492827 Epoch 239/1500

Epoch 240/1500

Batch 1/18, Loss: 0.001586265629157424 Batch 11/18, Loss: 0.001942434231750667 Epoch 241/1500

Batch 1/18, Loss: 0.0019084156956523657 Batch 11/18, Loss: 0.0014305806253105402 Epoch 242/1500

Batch 1/18, Loss: 0.0013198098167777061 Batch 11/18, Loss: 0.0009558750316500664 Epoch 243/1500

Batch 1/18, Loss: 0.002098949858918786 Batch 11/18, Loss: 0.000594066921621561 Epoch 244/1500

Batch 1/18, Loss: 0.00279631232842803 Batch 11/18, Loss: 0.0017999097472056746 Epoch 245/1500

Batch 1/18, Loss: 0.0008909252937883139 Batch 11/18, Loss: 0.0008409156580455601 Epoch 246/1500

Batch 1/18, Loss: 0.0017009145813062787 Batch 11/18, Loss: 0.0012206792598590255 Epoch 247/1500

Batch 1/18, Loss: 0.0007619049283675849 Batch 11/18, Loss: 0.0008385024848394096 Epoch 248/1500

Batch 1/18, Loss: 0.001208032132126391 Batch 11/18, Loss: 0.0007453752914443612 Epoch 249/1500

Batch 1/18, Loss: 0.0010459435870870948 Batch 11/18, Loss: 0.0018316383939236403 Epoch 250/1500

Batch 1/18, Loss: 0.001449836534447968 Batch 11/18, Loss: 0.00132216967176646 Epoch 251/1500

Batch 1/18, Loss: 0.002188336569815874 Batch 11/18, Loss: 0.002270204946398735 After epoch 250, loss=0.0009674746543169022 Epoch 252/1500

Batch 1/18, Loss: 0.0018471345538273454 Batch 11/18, Loss: 0.0014351222198456526 Epoch 253/1500

Batch 1/18, Loss: 0.0010544226970523596 Batch 11/18, Loss: 0.00148398510646075 Epoch 254/1500

Batch 1/18, Loss: 0.0009101980831474066 Batch 11/18, Loss: 0.001637845765799284 Epoch 255/1500 Batch 1/18, Loss: 0.0005188715877011418 Batch 11/18, Loss: 0.0017452917527407408

Epoch 256/1500

Batch 1/18, Loss: 0.0011497611412778497
Batch 11/18, Loss: 0.0017734126886352897

Epoch 257/1500

Batch 1/18, Loss: 0.0018533150432631373 Batch 11/18, Loss: 0.0011213883990421891 Epoch 258/1500

Batch 1/18, Loss: 0.0005158482817932963 Batch 11/18, Loss: 0.0014639649307355285 Epoch 259/1500

Batch 1/18, Loss: 0.0022766455076634884 Batch 11/18, Loss: 0.0011677008587867022 Epoch 260/1500

Batch 1/18, Loss: 0.0014642984606325626 Batch 11/18, Loss: 0.0014588639605790377 Epoch 261/1500

Batch 1/18, Loss: 0.0006045085610821843 Batch 11/18, Loss: 0.0011689201928675175 Epoch 262/1500

Batch 1/18, Loss: 0.0007418172899633646 Batch 11/18, Loss: 0.000682986166793853 Epoch 263/1500

Batch 1/18, Loss: 0.0012569907121360302 Batch 11/18, Loss: 0.0008681358303874731 Epoch 264/1500

Batch 1/18, Loss: 0.001735569559969008 Batch 11/18, Loss: 0.0007067632395774126 Epoch 265/1500

Batch 1/18, Loss: 0.0008867406868375838 Batch 11/18, Loss: 0.0012294789776206017 Epoch 266/1500

Batch 1/18, Loss: 0.000827830983325839 Batch 11/18, Loss: 0.0005978394183330238 Epoch 267/1500

Batch 1/18, Loss: 0.001555255614221096 Batch 11/18, Loss: 0.0009286977583542466 Epoch 268/1500

Batch 1/18, Loss: 0.0013633344788104296 Batch 11/18, Loss: 0.0009939176961779594 Epoch 269/1500

Batch 1/18, Loss: 0.0013732241932302713 Batch 11/18, Loss: 0.0025479730684310198 Epoch 270/1500

Batch 1/18, Loss: 0.00045995909022167325 Batch 11/18, Loss: 0.0010805382626131177 Epoch 271/1500

Batch 11/18, Loss: 0.0012552565895020962

Epoch 272/1500

Batch 1/18, Loss: 0.00216554943472147

Batch 11/18, Loss: 0.0006274916231632233

Epoch 273/1500

Batch 1/18, Loss: 0.0007029414991848171

Batch 11/18, Loss: 0.001464520813897252

Epoch 274/1500

Batch 1/18, Loss: 0.0018383088754490018

Batch 11/18, Loss: 0.0010495748138055205

Epoch 275/1500

Batch 1/18, Loss: 0.002488295314833522

Batch 11/18, Loss: 0.0010373737895861268

Epoch 276/1500

Batch 1/18, Loss: 0.0008525488083250821

Batch 11/18, Loss: 0.0017738252645358443

Epoch 277/1500

Batch 1/18, Loss: 0.0012692105956375599

Batch 11/18, Loss: 0.0006303747650235891

Epoch 278/1500

Batch 1/18, Loss: 0.0014199860161170363

Batch 11/18, Loss: 0.00032717996509745717

Epoch 279/1500

Batch 1/18, Loss: 0.0010650489712134004

Batch 11/18, Loss: 0.0008471489418298006

Epoch 280/1500

Batch 1/18, Loss: 0.0010273053776472807

Batch 11/18, Loss: 0.0013741978909820318

Epoch 281/1500

Batch 1/18, Loss: 0.0018419860862195492

Batch 11/18, Loss: 0.000985155813395977

Epoch 282/1500

Batch 1/18, Loss: 0.0016984104877337813

Batch 11/18, Loss: 0.0005303824436850846

Epoch 283/1500

Batch 1/18, Loss: 0.0006118240999057889

Batch 11/18, Loss: 0.0012154298601672053

Epoch 284/1500

Batch 1/18, Loss: 0.0010500266216695309

Batch 11/18, Loss: 0.0008100091945379972

Epoch 285/1500

Batch 1/18, Loss: 0.0015452969819307327

Batch 11/18, Loss: 0.0012999356258660555

Epoch 286/1500

Batch 1/18, Loss: 0.000393837399315089

Batch 11/18, Loss: 0.0012754397466778755

Epoch 287/1500

Batch 11/18, Loss: 0.00037343284930102527

Epoch 288/1500

Batch 1/18, Loss: 0.0008270731195807457

Batch 11/18, Loss: 0.0006454571266658604

Epoch 289/1500

Batch 1/18, Loss: 0.0008100744453258812

Batch 11/18, Loss: 0.0011139035923406482

Epoch 290/1500

Batch 1/18, Loss: 0.0007466348470188677

Batch 11/18, Loss: 0.0012480011209845543

Epoch 291/1500

Batch 1/18, Loss: 0.0017165730241686106

Batch 11/18, Loss: 0.0008105027372948825

Epoch 292/1500

Batch 1/18, Loss: 0.0006880280561745167

Batch 11/18, Loss: 0.0007900952477939427

Epoch 293/1500

Batch 1/18, Loss: 0.0003572640416678041

Batch 11/18, Loss: 0.0010298117995262146

Epoch 294/1500

Batch 1/18, Loss: 0.0012500393204391003

Batch 11/18, Loss: 0.00038508319994434714

Epoch 295/1500

Batch 1/18, Loss: 0.0009953930275514722

Batch 11/18, Loss: 0.00034324932494200766

Epoch 296/1500

Batch 1/18, Loss: 0.0005981640424579382

Batch 11/18, Loss: 0.000682520680129528

Epoch 297/1500

Batch 1/18, Loss: 0.0025360239669680595

Batch 11/18, Loss: 0.0007460919441655278

Epoch 298/1500

Batch 1/18, Loss: 0.0006158177275210619

Batch 11/18, Loss: 0.0013340986333787441

Epoch 299/1500

Batch 1/18, Loss: 0.00048769815475679934

Batch 11/18, Loss: 0.0009062919998541474

Epoch 300/1500

Batch 1/18, Loss: 0.0008194692782126367

Batch 11/18, Loss: 0.0014815300237387419

Epoch 301/1500

Batch 1/18, Loss: 0.0010218097595497966

Batch 11/18, Loss: 0.0005419407971203327

After epoch 300, loss=0.0004234219959471375

Epoch 302/1500

Batch 1/18, Loss: 0.0012684538960456848

Epoch 303/1500

Batch 1/18, Loss: 0.000319790473440662

Batch 11/18, Loss: 0.0007452636491507292

Epoch 304/1500

Batch 1/18, Loss: 0.0008972086361609399

Batch 11/18, Loss: 0.0004979202058166265

Epoch 305/1500

Batch 1/18, Loss: 0.0012154816649854183

Batch 11/18, Loss: 0.0008302032947540283

Epoch 306/1500

Batch 1/18, Loss: 0.0004946906701661646

Batch 11/18, Loss: 0.0007454255828633904

Epoch 307/1500

Batch 1/18, Loss: 0.0006352457567118108

Batch 11/18, Loss: 0.0010394116397947073

Epoch 308/1500

Batch 1/18, Loss: 0.0005476187216117978

Batch 11/18, Loss: 0.0008049474563449621

Epoch 309/1500

Batch 1/18, Loss: 0.00025619848747737706

Batch 11/18, Loss: 0.0008826901321299374

Epoch 310/1500

Batch 1/18, Loss: 0.0004112142196390778

Batch 11/18, Loss: 0.0013274969533085823

Epoch 311/1500

Batch 1/18, Loss: 0.0008429280132986605

Batch 11/18, Loss: 0.0004251256468705833

Epoch 312/1500

Batch 1/18, Loss: 0.00039294143789447844

Batch 11/18, Loss: 0.0007241755956783891

Epoch 313/1500

Batch 1/18, Loss: 0.00035229252534918487

Batch 11/18, Loss: 0.0008343763183802366

Epoch 314/1500

Batch 1/18, Loss: 0.00043804701999761164

Batch 11/18, Loss: 0.0003284203412476927

Epoch 315/1500

Batch 1/18, Loss: 0.0017367546679452062

Batch 11/18, Loss: 0.0002585599140729755

Epoch 316/1500

Batch 1/18, Loss: 0.0004402822523843497

Batch 11/18, Loss: 0.0016308320919051766

Epoch 317/1500

Batch 1/18, Loss: 0.00033164338674396276

Batch 11/18, Loss: 0.0011452704202383757

Epoch 318/1500

Batch 1/18, Loss: 0.00038538913941010833

Epoch 319/1500

Batch 1/18, Loss: 0.0004743431636597961 Batch 11/18, Loss: 0.0006521424511447549

Epoch 320/1500

Batch 1/18, Loss: 0.0005069294129498303 Batch 11/18, Loss: 0.0005635275738313794 Epoch 321/1500

Batch 1/18, Loss: 0.0005733318394050002 Batch 11/18, Loss: 0.0006693647592328489 Epoch 322/1500

Batch 1/18, Loss: 0.0008107447065412998 Batch 11/18, Loss: 0.0004821394686587155 Epoch 323/1500

Batch 1/18, Loss: 0.00075423379894346 Batch 11/18, Loss: 0.00032648674095980823 Epoch 324/1500

Batch 1/18, Loss: 0.000658819277305156 Batch 11/18, Loss: 0.0004962835228070617 Epoch 325/1500

Batch 1/18, Loss: 0.0017014002660289407 Batch 11/18, Loss: 0.000516472093295306 Epoch 326/1500

Batch 1/18, Loss: 0.0005254211137071252 Batch 11/18, Loss: 0.0006152480491437018 Epoch 327/1500

Batch 1/18, Loss: 0.0006795783410780132 Batch 11/18, Loss: 0.0006693894392810762 Epoch 328/1500

Batch 1/18, Loss: 0.0010228611063212156 Batch 11/18, Loss: 0.0005157291307114065 Epoch 329/1500

Batch 1/18, Loss: 0.0007494378951378167 Batch 11/18, Loss: 0.0004420700715854764 Epoch 330/1500

Batch 1/18, Loss: 0.0002427026629447937 Batch 11/18, Loss: 0.0018737419741228223 Epoch 331/1500

Batch 1/18, Loss: 0.0011784546077251434 Batch 11/18, Loss: 0.00041448866249993443 Epoch 332/1500

Batch 1/18, Loss: 0.0005183835746720433 Batch 11/18, Loss: 0.0003501193132251501 Epoch 333/1500

Batch 1/18, Loss: 0.0006031322991475463 Batch 11/18, Loss: 0.0006119809113442898 Epoch 334/1500

Batch 1/18, Loss: 0.0005173676763661206 Batch 11/18, Loss: 0.00066681660246104 Epoch 335/1500

Batch 1/18, Loss: 0.0006677086348645389 Batch 11/18, Loss: 0.0005106112221255898

Epoch 336/1500

Batch 1/18, Loss: 0.00031994516029953957
Batch 11/18, Loss: 0.00045589805813506246

Epoch 337/1500

Batch 1/18, Loss: 0.0002252491976832971 Batch 11/18, Loss: 0.0005704436334781349 Epoch 338/1500

Batch 1/18, Loss: 0.0005506830057129264
Batch 11/18, Loss: 0.0005219872109591961
Epoch 339/1500

Batch 1/18, Loss: 0.0006408084882423282 Batch 11/18, Loss: 0.0006023404421284795 Epoch 340/1500

Batch 1/18, Loss: 0.0010163590777665377 Batch 11/18, Loss: 0.0007438958855345845 Epoch 341/1500

Batch 1/18, Loss: 0.0010269280755892396 Batch 11/18, Loss: 0.00047609166358597577 Epoch 342/1500

Batch 1/18, Loss: 0.0008089885232038796 Batch 11/18, Loss: 0.00045903329737484455 Epoch 343/1500

Batch 1/18, Loss: 0.00034704775316640735 Batch 11/18, Loss: 0.00026813760632649064 Epoch 344/1500

Batch 1/18, Loss: 0.00032925058621913195 Batch 11/18, Loss: 0.0018263398669660091 Epoch 345/1500

Batch 1/18, Loss: 0.0003871858643833548 Batch 11/18, Loss: 0.0003750046598725021 Epoch 346/1500

Batch 1/18, Loss: 0.0008735861629247665 Batch 11/18, Loss: 0.000551938486751169 Epoch 347/1500

Batch 1/18, Loss: 0.0005337371258065104
Batch 11/18, Loss: 0.0003136344894301146

Epoch 348/1500
Batch 1/18, Loss: 0.0005846774438396096
Batch 11/18, Loss: 0.0006866598851047456
Epoch 349/1500

Batch 1/18, Loss: 0.0004023116489406675 Batch 11/18, Loss: 0.00029656520928256214 Epoch 350/1500

Batch 1/18, Loss: 0.00018897352856583893 Batch 11/18, Loss: 0.00019781608716584742 Epoch 351/1500

Batch 1/18, Loss: 0.0017252694815397263 Batch 11/18, Loss: 0.0003462546446826309

After epoch 350, loss=0.00041625151061452925 Epoch 352/1500

Batch 1/18, Loss: 0.00037093841820023954 Batch 11/18, Loss: 0.0003681023372337222 Epoch 353/1500

Batch 1/18, Loss: 0.00032698491122573614 Batch 11/18, Loss: 0.00044264300959184766 Epoch 354/1500

Batch 1/18, Loss: 0.0009353890782222152 Batch 11/18, Loss: 0.00037282638368196785 Epoch 355/1500

Batch 1/18, Loss: 0.0018346774158999324 Batch 11/18, Loss: 0.00048572360537946224 Epoch 356/1500

Batch 1/18, Loss: 0.00048199467710219324 Batch 11/18, Loss: 0.000670341367367655 Epoch 357/1500

Batch 1/18, Loss: 0.0007692096405662596 Batch 11/18, Loss: 0.0006710841553285718 Epoch 358/1500

Batch 1/18, Loss: 0.00048479385441169143 Batch 11/18, Loss: 0.000418729119701311 Epoch 359/1500

Batch 1/18, Loss: 0.0009111639810726047 Batch 11/18, Loss: 0.0016471680719405413 Epoch 360/1500

Batch 1/18, Loss: 0.0006224794196896255 Batch 11/18, Loss: 0.00040755775989964604 Epoch 361/1500

Batch 1/18, Loss: 0.00203517684713006 Batch 11/18, Loss: 0.0006938466103747487 Epoch 362/1500

Batch 1/18, Loss: 0.00047053874004632235 Batch 11/18, Loss: 0.0004118054057471454 Epoch 363/1500

Batch 1/18, Loss: 0.000445294426754117 Batch 11/18, Loss: 0.0005990765057504177 Epoch 364/1500

Batch 1/18, Loss: 0.0006715689087286592 Batch 11/18, Loss: 0.0016507497057318687 Epoch 365/1500

Batch 1/18, Loss: 0.0017105246661230922 Batch 11/18, Loss: 0.0004310683871153742 Epoch 366/1500

Epoch 367/1500

Batch 1/18, Loss: 0.0005612898385152221 Batch 11/18, Loss: 0.0004064053646288812 Epoch 368/1500

Batch 1/18, Loss: 0.0003294976195320487 Batch 11/18, Loss: 0.0004980377270840108 Epoch 369/1500

Batch 1/18, Loss: 0.0004797990550287068 Batch 11/18, Loss: 0.0003160673368256539 Epoch 370/1500

Batch 1/18, Loss: 0.0002636568096932024 Batch 11/18, Loss: 0.0006865208270028234 Epoch 371/1500

Batch 1/18, Loss: 0.00025928145623765886 Batch 11/18, Loss: 0.0006150700501166284 Epoch 372/1500

Batch 1/18, Loss: 0.0007874590810388327 Batch 11/18, Loss: 0.0006217871559783816 Epoch 373/1500

Batch 1/18, Loss: 0.000708509876858443 Batch 11/18, Loss: 0.0004156055219937116 Epoch 374/1500

Batch 1/18, Loss: 0.00047034703311510384 Batch 11/18, Loss: 0.000836564286146313 Epoch 375/1500

Batch 1/18, Loss: 0.0005456760991364717 Batch 11/18, Loss: 0.0006517778965644538 Epoch 376/1500

Batch 1/18, Loss: 0.00031895271968096495 Batch 11/18, Loss: 0.0004077693447470665 Epoch 377/1500

Batch 1/18, Loss: 0.00029263735632412136 Batch 11/18, Loss: 0.0004217802488710731 Epoch 378/1500

Batch 1/18, Loss: 0.0005208651418797672 Batch 11/18, Loss: 0.0005691289552487433 Epoch 379/1500

Batch 1/18, Loss: 0.000610917981248349 Batch 11/18, Loss: 0.0005881263059563935 Epoch 380/1500

Batch 1/18, Loss: 0.0003219599893782288 Batch 11/18, Loss: 0.0005158457206562161 Epoch 381/1500

Batch 1/18, Loss: 0.00033325637923553586 Batch 11/18, Loss: 0.00023346097441390157 Epoch 382/1500

Epoch 383/1500

Batch 1/18, Loss: 0.0004158700176049024 Batch 11/18, Loss: 0.0004548528522718698 Epoch 384/1500

Batch 1/18, Loss: 0.0003310602915007621 Batch 11/18, Loss: 0.0002718046889640391 Epoch 385/1500

Batch 1/18, Loss: 0.0005538403638638556 Batch 11/18, Loss: 0.0006985660293139517 Epoch 386/1500

Batch 1/18, Loss: 0.0003135752340313047 Batch 11/18, Loss: 0.0005619635921902955 Epoch 387/1500

Batch 1/18, Loss: 0.0004879030166193843 Batch 11/18, Loss: 0.0003571475681383163 Epoch 388/1500

Batch 1/18, Loss: 0.0005550068453885615 Batch 11/18, Loss: 0.00040662201354280114 Epoch 389/1500

Batch 1/18, Loss: 0.0006593241705559194 Batch 11/18, Loss: 0.0003275729832239449 Epoch 390/1500

Batch 1/18, Loss: 0.0003525812644511461 Batch 11/18, Loss: 0.0002755259338300675 Epoch 391/1500

Batch 1/18, Loss: 0.00046934455167502165 Batch 11/18, Loss: 0.0005074475193396211 Epoch 392/1500

Batch 1/18, Loss: 0.00040702809928916395 Batch 11/18, Loss: 0.0008301864145323634 Epoch 393/1500

Batch 1/18, Loss: 0.0003762145643122494 Batch 11/18, Loss: 0.0005029296153225005 Epoch 394/1500

Batch 1/18, Loss: 0.0005133839440532029 Batch 11/18, Loss: 0.00035307815414853394 Epoch 395/1500

Batch 1/18, Loss: 0.00033459297264926136 Batch 11/18, Loss: 0.001773093594238162 Epoch 396/1500

Batch 1/18, Loss: 0.0008268996607512236 Batch 11/18, Loss: 0.00030037524993531406 Epoch 397/1500

Batch 1/18, Loss: 0.00022149001597426832 Batch 11/18, Loss: 0.001596668385900557 Epoch 398/1500

Batch 11/18, Loss: 0.00021331568132154644 Epoch 399/1500

Batch 1/18, Loss: 0.00036975351395085454 Batch 11/18, Loss: 0.0015160695184022188 Epoch 400/1500

Batch 1/18, Loss: 0.000240606430452317 Batch 11/18, Loss: 0.0003874171816278249 Epoch 401/1500

Batch 1/18, Loss: 0.0008728007669560611
Batch 11/18, Loss: 0.0003089242964051664
After epoch 400, loss=0.0002914778597187251
Epoch 402/1500

Batch 1/18, Loss: 0.0004315788683015853 Batch 11/18, Loss: 0.0006567274685949087 Epoch 403/1500

Batch 1/18, Loss: 0.0003260560624767095 Batch 11/18, Loss: 0.00029960068059153855 Epoch 404/1500

Batch 1/18, Loss: 0.00027028925251215696 Batch 11/18, Loss: 0.0003645365359261632 Epoch 405/1500

Batch 1/18, Loss: 0.0008982319268397987 Batch 11/18, Loss: 0.0004095594631507993 Epoch 406/1500

Batch 1/18, Loss: 0.0003518272715155035 Batch 11/18, Loss: 0.0003764245775528252 Epoch 407/1500

Batch 1/18, Loss: 0.00034847139613702893 Batch 11/18, Loss: 0.00034033224801532924 Epoch 408/1500

Batch 1/18, Loss: 0.0003150214906781912 Batch 11/18, Loss: 0.0007745029870420694 Epoch 409/1500

Batch 1/18, Loss: 0.00032375764567404985 Batch 11/18, Loss: 0.0004210409533698112 Epoch 410/1500

Batch 1/18, Loss: 0.00045081385178491473 Batch 11/18, Loss: 0.00034173415042459965 Epoch 411/1500

Batch 1/18, Loss: 0.00037110247649252415
Batch 11/18, Loss: 0.00027999046142213047
Epoch 412/1500

Batch 1/18, Loss: 0.0003891660016961396 Batch 11/18, Loss: 0.00041774759301915765 Epoch 413/1500

Batch 1/18, Loss: 0.0008369794231839478 Batch 11/18, Loss: 0.00024645455414429307 Epoch 414/1500

Batch 11/18, Loss: 0.00033532921224832535

Epoch 415/1500

Batch 1/18, Loss: 0.0003032411041203886

Batch 11/18, Loss: 0.000372700160369277

Epoch 416/1500

Batch 1/18, Loss: 0.0004445309459697455

Batch 11/18, Loss: 0.0015562489861622453

Epoch 417/1500

Batch 1/18, Loss: 0.0002845197741407901

Batch 11/18, Loss: 0.0004333972465246916

Epoch 418/1500

Batch 1/18, Loss: 0.000227280383114703

Batch 11/18, Loss: 0.00022824497136753052

Epoch 419/1500

Batch 1/18, Loss: 0.00025817687856033444

Batch 11/18, Loss: 0.0005468010203912854

Epoch 420/1500

Batch 1/18, Loss: 0.00032435572938993573

Batch 11/18, Loss: 0.0003596917085815221

Epoch 421/1500

Batch 1/18, Loss: 0.00031191069865599275

Batch 11/18, Loss: 0.0004840371257159859

Epoch 422/1500

Batch 1/18, Loss: 0.00036073580849915743

Batch 11/18, Loss: 0.000527645053807646

Epoch 423/1500

Batch 1/18, Loss: 0.0004921054351143539

Batch 11/18, Loss: 0.0003239612269680947

Epoch 424/1500

Batch 1/18, Loss: 0.00040250751771964133

Batch 11/18, Loss: 0.0004371162212919444

Epoch 425/1500

Batch 1/18, Loss: 0.0003029580693691969

Batch 11/18, Loss: 0.0004470994172152132

Epoch 426/1500

Batch 1/18, Loss: 0.00037211866583675146

Batch 11/18, Loss: 0.0014911547768861055

Epoch 427/1500

Batch 1/18, Loss: 0.0006284145638346672

Batch 11/18, Loss: 0.00030947316554374993

Epoch 428/1500

Batch 1/18, Loss: 0.00027184130158275366

Batch 11/18, Loss: 0.000461776799056679

Epoch 429/1500

Batch 1/18, Loss: 0.00035965139977633953

Batch 11/18, Loss: 0.00033467792673036456

Epoch 430/1500

Batch 1/18, Loss: 0.0005270560504868627 Batch 11/18, Loss: 0.0002795820473693311

Epoch 431/1500

Batch 1/18, Loss: 0.0002625234192237258
Batch 11/18, Loss: 0.0004488436970859766

Epoch 432/1500

Batch 1/18, Loss: 0.0002763742522802204 Batch 11/18, Loss: 0.0015649407869204879

Epoch 433/1500

Batch 1/18, Loss: 0.0015043258899822831 Batch 11/18, Loss: 0.00046054323320277035 Epoch 434/1500

Batch 1/18, Loss: 0.0003867181367240846 Batch 11/18, Loss: 0.00025666423607617617 Epoch 435/1500

Batch 1/18, Loss: 0.000271760334726423 Batch 11/18, Loss: 0.0004832317354157567 Epoch 436/1500

Batch 1/18, Loss: 0.00041052495362237096 Batch 11/18, Loss: 0.00020071225299034268 Epoch 437/1500

Batch 1/18, Loss: 0.00016438296006526798 Batch 11/18, Loss: 0.00172348169144243 Epoch 438/1500

Batch 1/18, Loss: 0.000272423931164667 Batch 11/18, Loss: 0.0005518537946045399 Epoch 439/1500

Batch 1/18, Loss: 0.0002607352798804641 Batch 11/18, Loss: 0.00025484050274826586 Epoch 440/1500

Batch 1/18, Loss: 0.0003965732466895133
Batch 11/18, Loss: 0.00033534332760609686
Epoch 441/1500

Batch 1/18, Loss: 0.000314569566398859 Batch 11/18, Loss: 0.0008066907757893205 Epoch 442/1500

Batch 1/18, Loss: 0.0005295677692629397 Batch 11/18, Loss: 0.0002721386554185301 Epoch 443/1500

Batch 1/18, Loss: 0.0003231935843359679 Batch 11/18, Loss: 0.000505293719470501 Epoch 444/1500

Batch 1/18, Loss: 0.00031025809585116804 Batch 11/18, Loss: 0.0003131527337245643 Epoch 445/1500

Batch 1/18, Loss: 0.00023715059796813875 Batch 11/18, Loss: 0.00024009120534174144 Epoch 446/1500

Batch 11/18, Loss: 0.0002657040022313595

Epoch 447/1500

Batch 1/18, Loss: 0.000253732199780643

Batch 11/18, Loss: 0.00025706016458570957

Epoch 448/1500

Batch 1/18, Loss: 0.00030733912717550993

Batch 11/18, Loss: 0.00033927950426004827

Epoch 449/1500

Batch 1/18, Loss: 0.00025911381817422807

Batch 11/18, Loss: 0.0003898208378814161

Epoch 450/1500

Batch 1/18, Loss: 0.00027200145996175706

Batch 11/18, Loss: 0.0002992429945152253

Epoch 451/1500

Batch 1/18, Loss: 0.0004161497054155916

Batch 11/18, Loss: 0.0005742011126130819

After epoch 450, loss=9.476245759287849e-05

Epoch 452/1500

Batch 1/18, Loss: 0.00031723230495117605

Batch 11/18, Loss: 0.00023864970717113465

Epoch 453/1500

Batch 1/18, Loss: 0.00022450805408880115

Batch 11/18, Loss: 0.00040591013384982944

Epoch 454/1500

Batch 1/18, Loss: 0.00024648409453220665

Batch 11/18, Loss: 0.0002593930112197995

Epoch 455/1500

Batch 1/18, Loss: 0.00025039204047061503

Batch 11/18, Loss: 0.0003063916228711605

Epoch 456/1500

Batch 1/18, Loss: 0.0014217572752386332

Batch 11/18, Loss: 0.000348647270584479

Epoch 457/1500

Batch 1/18, Loss: 0.00021215816377662122

Batch 11/18, Loss: 0.000777594861574471

Epoch 458/1500

Batch 1/18, Loss: 0.0004981582751497626

Batch 11/18, Loss: 0.0004027942195534706

Epoch 459/1500

Batch 1/18, Loss: 0.00040000193985179067

Batch 11/18, Loss: 0.0003661215305328369

Epoch 460/1500

Batch 1/18, Loss: 0.0015330392634496093

Batch 11/18, Loss: 0.0003678900538943708

Epoch 461/1500

Batch 1/18, Loss: 0.0007817789446562529

Epoch 462/1500

Batch 1/18, Loss: 0.0003813464427366853 Batch 11/18, Loss: 0.0003649815625976771

Epoch 463/1500

Batch 1/18, Loss: 0.00017502332048024982 Batch 11/18, Loss: 0.00028114873566664755

Epoch 464/1500

Batch 1/18, Loss: 0.0013882480561733246 Batch 11/18, Loss: 0.00041345611680299044 Epoch 465/1500

Batch 1/18, Loss: 0.00037290752516128123 Batch 11/18, Loss: 0.00030923826852813363 Epoch 466/1500

Batch 1/18, Loss: 0.00047313072718679905 Batch 11/18, Loss: 0.0003126559604424983 Epoch 467/1500

Batch 1/18, Loss: 0.00027156926807947457 Batch 11/18, Loss: 0.00026362709468230605 Epoch 468/1500

Batch 1/18, Loss: 0.00032349242246709764 Batch 11/18, Loss: 0.0003279669035691768 Epoch 469/1500

Batch 1/18, Loss: 0.0002661292674019933 Batch 11/18, Loss: 0.00020718439191114157 Epoch 470/1500

Batch 1/18, Loss: 0.00027192692505195737 Batch 11/18, Loss: 0.0003705616982188076 Epoch 471/1500

Batch 1/18, Loss: 0.00028674141503870487 Batch 11/18, Loss: 0.001483806176111102 Epoch 472/1500

Batch 1/18, Loss: 0.0002898277307394892 Batch 11/18, Loss: 0.0017248300136998296 Epoch 473/1500

Batch 1/18, Loss: 0.0003107162774540484 Batch 11/18, Loss: 0.0003947154327761382 Epoch 474/1500

Batch 1/18, Loss: 0.000242944952333346 Batch 11/18, Loss: 0.00028257755911909044 Epoch 475/1500

Batch 1/18, Loss: 0.0003086258075200021 Batch 11/18, Loss: 0.00024699856294319034 Epoch 476/1500

Batch 1/18, Loss: 0.0003060807357542217 Batch 11/18, Loss: 0.0002388875582255423 Epoch 477/1500

Batch 1/18, Loss: 0.00022113780141808093 Batch 11/18, Loss: 0.00037653150502592325 Epoch 478/1500

Batch 1/18, Loss: 0.0006014034734107554 Batch 11/18, Loss: 0.0002905125729739666

Epoch 479/1500

Batch 1/18, Loss: 0.0002867147559300065 Batch 11/18, Loss: 0.00023974290525075048 Epoch 480/1500

Batch 1/18, Loss: 0.0006072800606489182 Batch 11/18, Loss: 0.00034744245931506157 Epoch 481/1500

Batch 1/18, Loss: 0.00024166925868485123 Batch 11/18, Loss: 0.0003112017293460667 Epoch 482/1500

Batch 1/18, Loss: 0.00020055478671565652 Batch 11/18, Loss: 0.0003074388951063156 Epoch 483/1500

Batch 1/18, Loss: 0.0002460031828377396 Batch 11/18, Loss: 0.0003835131647065282 Epoch 484/1500

Batch 1/18, Loss: 0.0014812275767326355 Batch 11/18, Loss: 0.000327074812958017 Epoch 485/1500

Batch 1/18, Loss: 0.0003529516397975385 Batch 11/18, Loss: 0.00028496328741312027 Epoch 486/1500

Batch 1/18, Loss: 0.00020505004795268178 Batch 11/18, Loss: 0.0003830680507235229 Epoch 487/1500

Batch 1/18, Loss: 0.0003410952049307525 Batch 11/18, Loss: 0.0018477472476661205 Epoch 488/1500

Batch 1/18, Loss: 0.00018608379468787462 Batch 11/18, Loss: 0.0005210281233303249 Epoch 489/1500

Batch 1/18, Loss: 0.00027314055478200316 Batch 11/18, Loss: 0.00024872124777175486 Epoch 490/1500

Batch 1/18, Loss: 0.00016081238572951406 Batch 11/18, Loss: 0.00024348226725123823 Epoch 491/1500

Batch 1/18, Loss: 0.0003129447577521205 Batch 11/18, Loss: 0.0005176145350560546 Epoch 492/1500

Batch 1/18, Loss: 0.00023930775932967663 Batch 11/18, Loss: 0.00035444306558929384 Epoch 493/1500

Batch 1/18, Loss: 0.0005078929825685918
Batch 11/18, Loss: 0.00030469472403638065

Epoch 494/1500

Batch 1/18, Loss: 0.0002467561571393162 Batch 11/18, Loss: 0.000162218464538455

Epoch 495/1500

Batch 1/18, Loss: 0.0002666125656105578 Batch 11/18, Loss: 0.00030429946491494775 Epoch 496/1500

Batch 1/18, Loss: 0.00037083958159200847 Batch 11/18, Loss: 0.0002705753722693771 Epoch 497/1500

Batch 1/18, Loss: 0.00034525978844612837 Batch 11/18, Loss: 0.00013472922728396952 Epoch 498/1500

Batch 1/18, Loss: 0.00027197468443773687 Batch 11/18, Loss: 0.00027890337514691055 Epoch 499/1500

Batch 1/18, Loss: 0.00038192066131159663 Batch 11/18, Loss: 0.0001686922914814204 Epoch 500/1500

Batch 1/18, Loss: 0.00029410995193757117 Batch 11/18, Loss: 0.00032132939668372273 Epoch 501/1500

Batch 1/18, Loss: 0.0003545977524481714
Batch 11/18, Loss: 0.00024552689865231514
After epoch 500, loss=0.00018065026961266994
Epoch 502/1500

Batch 1/18, Loss: 0.00030395647627301514 Batch 11/18, Loss: 0.0006288783042691648 Epoch 503/1500

Batch 1/18, Loss: 0.00031798859708942473 Batch 11/18, Loss: 0.0002725759113673121 Epoch 504/1500

Batch 1/18, Loss: 0.0003839835699182004 Batch 11/18, Loss: 0.0002098191762343049 Epoch 505/1500

Batch 1/18, Loss: 0.0003035789413843304 Batch 11/18, Loss: 0.00027179441531188786 Epoch 506/1500

Batch 1/18, Loss: 0.00022882939083501697 Batch 11/18, Loss: 0.0002583532768767327 Epoch 507/1500

Batch 1/18, Loss: 0.00031926046358421445 Batch 11/18, Loss: 0.00014430534793063998 Epoch 508/1500

Batch 1/18, Loss: 0.0015378643292933702 Batch 11/18, Loss: 0.00047325348714366555 Epoch 509/1500

Batch 11/18, Loss: 0.00020646065240725875 Epoch 510/1500

Batch 1/18, Loss: 0.00044407107634469867 Batch 11/18, Loss: 0.0002156793198082596 Epoch 511/1500

Batch 1/18, Loss: 0.00019040417100768536 Batch 11/18, Loss: 0.00022388568322639912 Epoch 512/1500

Batch 1/18, Loss: 0.0003181294014211744
Batch 11/18, Loss: 0.0006180839263834059
Epoch 513/1500

Batch 1/18, Loss: 0.00027962494641542435 Batch 11/18, Loss: 0.0015114496927708387 Epoch 514/1500

Batch 1/18, Loss: 0.00019354488176759332 Batch 11/18, Loss: 0.00038626143941655755 Epoch 515/1500

Batch 1/18, Loss: 0.00020643268362618983 Batch 11/18, Loss: 0.00035960329114459455 Epoch 516/1500

Batch 1/18, Loss: 0.00021153564739506692
Batch 11/18, Loss: 0.0003667063429020345

Epoch 517/1500

Batch 1/18, Loss: 0.0002535731182433665
Batch 11/18, Loss: 0.00025248376186937094
Epoch 518/1500

Batch 1/18, Loss: 0.0001967941934708506 Batch 11/18, Loss: 0.0002304827212356031 Epoch 519/1500

Batch 1/18, Loss: 0.0005005873972550035 Batch 11/18, Loss: 0.0005720120389014482 Epoch 520/1500

Batch 1/18, Loss: 0.0002509444602765143 Batch 11/18, Loss: 0.0006795321824029088 Epoch 521/1500

Batch 1/18, Loss: 0.00021869527699891478 Batch 11/18, Loss: 0.0002469572937116027 Epoch 522/1500

Batch 1/18, Loss: 0.00031159637728706 Batch 11/18, Loss: 0.000356775097316131 Epoch 523/1500

Batch 1/18, Loss: 0.00027799245435744524 Batch 11/18, Loss: 0.0002931045601144433 Epoch 524/1500

Batch 1/18, Loss: 0.001705742790363729 Batch 11/18, Loss: 0.0007736303959973156 Epoch 525/1500

Batch 11/18, Loss: 0.00022825899941381067 Epoch 526/1500

Batch 1/18, Loss: 0.0001987146824831143
Batch 11/18, Loss: 0.00016013665299396962

Epoch 527/1500

Batch 1/18, Loss: 0.00025768030900508165 Batch 11/18, Loss: 0.0003035477129742503 Epoch 528/1500

Batch 1/18, Loss: 0.0001306002668570727 Batch 11/18, Loss: 0.0014127310132607818 Epoch 529/1500

Batch 1/18, Loss: 0.00047098431969061494 Batch 11/18, Loss: 0.0003352943167556077 Epoch 530/1500

Batch 1/18, Loss: 0.00020838307682424784 Batch 11/18, Loss: 0.001465112785808742 Epoch 531/1500

Batch 1/18, Loss: 0.00023475308262277395 Batch 11/18, Loss: 0.00028103168006055057 Epoch 532/1500

Batch 1/18, Loss: 0.00024276239855680615 Batch 11/18, Loss: 0.00038380708429031074 Epoch 533/1500

Batch 1/18, Loss: 0.00021604074572678655
Batch 11/18, Loss: 0.00024373605265282094
Epoch 534/1500

Batch 1/18, Loss: 0.00016081577632576227 Batch 11/18, Loss: 0.0002791440347209573 Epoch 535/1500

Batch 1/18, Loss: 0.0003335301298648119 Batch 11/18, Loss: 0.00026056106435135007 Epoch 536/1500

Batch 1/18, Loss: 0.0003379185509402305 Batch 11/18, Loss: 0.000269623298663646 Epoch 537/1500

Batch 1/18, Loss: 0.0003949925012420863 Batch 11/18, Loss: 0.00023753962886985391 Epoch 538/1500

Batch 1/18, Loss: 0.0002609543444123119
Batch 11/18, Loss: 0.00027893524384126067
Epoch 539/1500

Batch 1/18, Loss: 0.0003018631541635841 Batch 11/18, Loss: 0.00028932769782841206 Epoch 540/1500

Batch 1/18, Loss: 0.00016498957120347768
Batch 11/18, Loss: 0.00027131804381497204
Epoch 541/1500

Batch 11/18, Loss: 0.00038309229421429336 Epoch 542/1500

Batch 1/18, Loss: 0.00027743622194975615
Batch 11/18, Loss: 0.00036579626612365246

Epoch 543/1500

Batch 1/18, Loss: 0.00031540507916361094 Batch 11/18, Loss: 0.0002692303678486496 Epoch 544/1500

Batch 1/18, Loss: 0.00017912036855705082 Batch 11/18, Loss: 0.0006279580411501229 Epoch 545/1500

Batch 1/18, Loss: 0.00029831414576619864 Batch 11/18, Loss: 0.00026901584351435304 Epoch 546/1500

Batch 1/18, Loss: 0.00020868025603704154 Batch 11/18, Loss: 0.00034797884291037917 Epoch 547/1500

Batch 1/18, Loss: 0.000278019841061905 Batch 11/18, Loss: 0.00038532636244781315 Epoch 548/1500

Batch 1/18, Loss: 0.00026582798454910517 Batch 11/18, Loss: 0.001453142031095922 Epoch 549/1500

Batch 1/18, Loss: 0.000406732433475554 Batch 11/18, Loss: 0.0002813022874761373 Epoch 550/1500

Batch 1/18, Loss: 0.00019037083256989717 Batch 11/18, Loss: 0.0002302277716808021 Epoch 551/1500

Batch 1/18, Loss: 0.0002984288730658591 Batch 11/18, Loss: 0.00025039847241714597 After epoch 550, loss=0.0003464986220933497 Epoch 552/1500

Batch 1/18, Loss: 0.0006633560406044126 Batch 11/18, Loss: 0.0001653488288866356 Epoch 553/1500

Batch 1/18, Loss: 0.00032666849438101053 Batch 11/18, Loss: 0.00025529720005579293 Epoch 554/1500

Batch 1/18, Loss: 0.00042208563536405563 Batch 11/18, Loss: 0.00021240752539597452 Epoch 555/1500

Batch 1/18, Loss: 0.0003002590674441308 Batch 11/18, Loss: 0.00033288009581156075 Epoch 556/1500

Batch 1/18, Loss: 0.0013305505272001028 Batch 11/18, Loss: 0.0006760975811630487 Epoch 557/1500 Batch 1/18, Loss: 0.00015648166299797595 Batch 11/18, Loss: 0.0003708955191541463

Epoch 558/1500

Batch 1/18, Loss: 0.00019402499310672283 Batch 11/18, Loss: 0.0003694566839840263

Epoch 559/1500

Batch 1/18, Loss: 0.0003291078028269112 Batch 11/18, Loss: 0.0013856218429282308 Epoch 560/1500

Batch 1/18, Loss: 0.0002819845685735345 Batch 11/18, Loss: 0.0003346499870531261 Epoch 561/1500

Batch 1/18, Loss: 0.00022994067694526166 Batch 11/18, Loss: 0.00023148511536419392 Epoch 562/1500

Batch 1/18, Loss: 0.00025470572290942073 Batch 11/18, Loss: 0.00046900130109861493 Epoch 563/1500

Batch 1/18, Loss: 0.00023773750581312925 Batch 11/18, Loss: 0.0002905271830968559 Epoch 564/1500

Batch 1/18, Loss: 0.00030958885326981544
Batch 11/18, Loss: 0.00025361074949614704
Epoch 565/1500

Batch 1/18, Loss: 0.0015803679125383496 Batch 11/18, Loss: 0.0006305858842097223 Epoch 566/1500

Batch 1/18, Loss: 0.00016559773939661682 Batch 11/18, Loss: 0.00032979610841721296 Epoch 567/1500

Batch 1/18, Loss: 0.0002650763199198991 Batch 11/18, Loss: 0.00018556237046141177 Epoch 568/1500

Batch 1/18, Loss: 0.00029881412046961486 Batch 11/18, Loss: 0.0002750753774307668 Epoch 569/1500

Batch 1/18, Loss: 0.0002880616520997137 Batch 11/18, Loss: 0.00044827291276305914 Epoch 570/1500

Batch 1/18, Loss: 0.0002789448481053114 Batch 11/18, Loss: 0.00021341850515455008 Epoch 571/1500

Batch 1/18, Loss: 0.00036089037894271314 Batch 11/18, Loss: 0.00193411810323596 Epoch 572/1500

Batch 1/18, Loss: 0.0012736519565805793 Batch 11/18, Loss: 0.0001833857095334679 Epoch 573/1500

Batch 11/18, Loss: 0.0001956223277375102

Epoch 574/1500

Batch 1/18, Loss: 0.000172565269167535

Batch 11/18, Loss: 0.00021429097978398204

Epoch 575/1500

Batch 1/18, Loss: 0.00022813340183347464

Batch 11/18, Loss: 0.0005789560382254422

Epoch 576/1500

Batch 1/18, Loss: 0.0003464696346782148

Batch 11/18, Loss: 0.00025606711278669536

Epoch 577/1500

Batch 1/18, Loss: 0.000265688868239522

Batch 11/18, Loss: 0.0002931727794930339

Epoch 578/1500

Batch 1/18, Loss: 0.000193169922567904

Batch 11/18, Loss: 0.0003192666044924408

Epoch 579/1500

Batch 1/18, Loss: 0.00019538498600013554

Batch 11/18, Loss: 0.0014548801118507981

Epoch 580/1500

Batch 1/18, Loss: 0.00019338325364515185

Batch 11/18, Loss: 0.00023529517056886107

Epoch 581/1500

Batch 1/18, Loss: 0.00018438074039295316

Batch 11/18, Loss: 0.00018556771101430058

Epoch 582/1500

Batch 1/18, Loss: 0.0002272960264235735

Batch 11/18, Loss: 0.00021781798568554223

Epoch 583/1500

Batch 1/18, Loss: 0.0002177988353651017

Batch 11/18, Loss: 0.0002520814014133066

Epoch 584/1500

Batch 1/18, Loss: 0.0003040007140953094

Batch 11/18, Loss: 0.00013262982247397304

Epoch 585/1500

Batch 1/18, Loss: 0.00020392920123413205

Batch 11/18, Loss: 0.00021891325013712049

Epoch 586/1500

Batch 1/18, Loss: 0.00037553044967353344

Batch 11/18, Loss: 0.0002523853909224272

Epoch 587/1500

Batch 1/18, Loss: 0.00022777255799155682

Batch 11/18, Loss: 0.00025943678338080645

Epoch 588/1500

Batch 1/18, Loss: 0.0003236459451727569

Batch 11/18, Loss: 0.00032607605680823326

Epoch 589/1500

Batch 1/18, Loss: 0.00043056686990894377 Batch 11/18, Loss: 0.0013495521852746606

Epoch 590/1500

Batch 1/18, Loss: 0.00033263672958128154 Batch 11/18, Loss: 0.00029352123965509236 Epoch 591/1500

Batch 1/18, Loss: 0.0003024144098162651 Batch 11/18, Loss: 0.00038407588726840913 Epoch 592/1500

Batch 1/18, Loss: 0.0004059937200509012 Batch 11/18, Loss: 0.000178483227500692 Epoch 593/1500

Batch 1/18, Loss: 0.0003419947170186788 Batch 11/18, Loss: 0.0002563692396506667 Epoch 594/1500

Batch 1/18, Loss: 0.00023917340149637312 Batch 11/18, Loss: 0.00025979604106396437 Epoch 595/1500

Batch 1/18, Loss: 0.00023108188179321587 Batch 11/18, Loss: 0.00013135421613696963 Epoch 596/1500

Batch 1/18, Loss: 0.00029220551368780434 Batch 11/18, Loss: 0.0001553172478452325 Epoch 597/1500

Batch 1/18, Loss: 0.00029647626797668636 Batch 11/18, Loss: 0.00023560665431432426 Epoch 598/1500

Batch 1/18, Loss: 0.00025471235858276486 Batch 11/18, Loss: 0.0013060412602499127 Epoch 599/1500

Batch 1/18, Loss: 0.0001300812145927921 Batch 11/18, Loss: 0.0021056090481579304 Epoch 600/1500

Batch 1/18, Loss: 0.000242866764892824 Batch 11/18, Loss: 0.00026557332603260875 Epoch 601/1500

Batch 1/18, Loss: 0.0002246123185614124 Batch 11/18, Loss: 0.0003398041590116918 After epoch 600, loss=0.0002320504281669855 Epoch 602/1500

Batch 1/18, Loss: 0.00028303396538831294 Batch 11/18, Loss: 0.00034579841303639114 Epoch 603/1500

Batch 1/18, Loss: 0.00017147920152638108 Batch 11/18, Loss: 0.00028807055787183344 Epoch 604/1500

Batch 1/18, Loss: 0.0002070491318590939 Batch 11/18, Loss: 0.0002570327778812498 Epoch 605/1500

Batch 1/18, Loss: 0.0012639521155506372 Batch 11/18, Loss: 0.00024702365044504404

Epoch 606/1500

Batch 1/18, Loss: 0.0002960684068966657 Batch 11/18, Loss: 0.0001772354735294357

Epoch 607/1500

Batch 1/18, Loss: 0.0003086783108301461 Batch 11/18, Loss: 0.0003090922546107322 Epoch 608/1500

Batch 1/18, Loss: 0.0001400042965542525 Batch 11/18, Loss: 0.00031448277877643704 Epoch 609/1500

Batch 1/18, Loss: 0.0004006372473668307 Batch 11/18, Loss: 0.00021437402756419033 Epoch 610/1500

Batch 1/18, Loss: 0.0003468119539320469
Batch 11/18, Loss: 0.00021327189460862428
Epoch 611/1500

Batch 1/18, Loss: 0.00020910034072585404 Batch 11/18, Loss: 0.00018247940170112997 Epoch 612/1500

Batch 1/18, Loss: 0.00029945699498057365 Batch 11/18, Loss: 0.0002525398740544915 Epoch 613/1500

Batch 1/18, Loss: 0.00023175613023340702 Batch 11/18, Loss: 0.0002677273005247116 Epoch 614/1500

Batch 1/18, Loss: 0.0002673853887245059 Batch 11/18, Loss: 0.0003176423779223114 Epoch 615/1500

Batch 1/18, Loss: 0.0002710618427954614 Batch 11/18, Loss: 0.0017368169501423836 Epoch 616/1500

Batch 1/18, Loss: 0.00016431410040240735 Batch 11/18, Loss: 0.00019459651957731694 Epoch 617/1500

Batch 1/18, Loss: 0.0013209552271291614 Batch 11/18, Loss: 0.00019641095423139632 Epoch 618/1500

Batch 1/18, Loss: 0.00014197177370078862 Batch 11/18, Loss: 0.0007710252539254725 Epoch 619/1500

Batch 1/18, Loss: 0.00018953109974972904 Batch 11/18, Loss: 0.00032859176280908287 Epoch 620/1500

Batch 1/18, Loss: 0.0002741783391684294 Batch 11/18, Loss: 0.00023655861150473356 Epoch 621/1500

Batch 1/18, Loss: 0.0002579495485406369 Batch 11/18, Loss: 0.0001916875335155055

Epoch 622/1500

Batch 1/18, Loss: 0.00024350445892196149
Batch 11/18, Loss: 0.00019528574193827808

Epoch 623/1500

Batch 1/18, Loss: 0.00019181387324351817 Batch 11/18, Loss: 0.0002262795896967873 Epoch 624/1500

Batch 1/18, Loss: 0.00017747795209288597 Batch 11/18, Loss: 0.00030232738936319947 Epoch 625/1500

Batch 1/18, Loss: 0.0002320015337318182 Batch 11/18, Loss: 0.00017619052960071713 Epoch 626/1500

Batch 1/18, Loss: 0.0001895429304568097 Batch 11/18, Loss: 0.00020455362391658127 Epoch 627/1500

Batch 1/18, Loss: 0.00020253156253602356 Batch 11/18, Loss: 0.0002350101713091135 Epoch 628/1500

Batch 1/18, Loss: 0.00022531533613801003 Batch 11/18, Loss: 0.00019022375636268407 Epoch 629/1500

Batch 1/18, Loss: 0.0002337366749998182 Batch 11/18, Loss: 0.00037265371065586805 Epoch 630/1500

Batch 1/18, Loss: 0.0002566519833635539 Batch 11/18, Loss: 0.00022218961385078728 Epoch 631/1500

Batch 1/18, Loss: 0.00014237339200917631 Batch 11/18, Loss: 0.00032401212956756353 Epoch 632/1500

Batch 1/18, Loss: 0.000537215149961412 Batch 11/18, Loss: 0.001369583304040134 Epoch 633/1500

Batch 1/18, Loss: 0.0001690363569650799 Batch 11/18, Loss: 0.00016926623356994241 Epoch 634/1500

Batch 1/18, Loss: 0.0004100602527614683 Batch 11/18, Loss: 0.00024003892031032592 Epoch 635/1500

Batch 1/18, Loss: 0.00017761369235813618 Batch 11/18, Loss: 0.0002726492821238935 Epoch 636/1500

Batch 1/18, Loss: 0.0003630279970820993 Batch 11/18, Loss: 0.00030008592875674367 Epoch 637/1500

Batch 1/18, Loss: 0.0003117067681159824 Batch 11/18, Loss: 0.0002525459276512265

Epoch 638/1500

Batch 1/18, Loss: 0.00016541198419872671 Batch 11/18, Loss: 0.00018747163994703442 Epoch 639/1500

Batch 1/18, Loss: 0.00025885982904583216 Batch 11/18, Loss: 0.00023761358170304447 Epoch 640/1500

Batch 1/18, Loss: 0.00015172731946222484 Batch 11/18, Loss: 0.00019481217896100134 Epoch 641/1500

Batch 1/18, Loss: 0.0002018158556893468 Batch 11/18, Loss: 0.0006660570506937802 Epoch 642/1500

Batch 1/18, Loss: 0.00013808075163979083 Batch 11/18, Loss: 0.0003248806460760534 Epoch 643/1500

Batch 1/18, Loss: 0.00020341853087302297 Batch 11/18, Loss: 0.00025026232469826937 Epoch 644/1500

Batch 1/18, Loss: 0.0006596120074391365 Batch 11/18, Loss: 0.0001926679688040167 Epoch 645/1500

Batch 1/18, Loss: 0.0005862387479282916 Batch 11/18, Loss: 0.00016122966189868748 Epoch 646/1500

Batch 1/18, Loss: 0.00016302449512295425 Batch 11/18, Loss: 0.0003836447140201926 Epoch 647/1500

Batch 1/18, Loss: 0.00015471824735868722 Batch 11/18, Loss: 0.00031268870225176215 Epoch 648/1500

Batch 1/18, Loss: 0.0006330179166980088 Batch 11/18, Loss: 0.00042423824197612703 Epoch 649/1500

Batch 1/18, Loss: 0.0002936319215223193 Batch 11/18, Loss: 0.0003313745546620339 Epoch 650/1500

Batch 1/18, Loss: 0.0007602068944834173 Batch 11/18, Loss: 0.0004347123031038791 Epoch 651/1500

Batch 1/18, Loss: 0.00034314816002734005 Batch 11/18, Loss: 0.00022865294886287302 After epoch 650, loss=0.0002556207764428109 Epoch 652/1500

Epoch 653/1500

Batch 1/18, Loss: 0.00023586256429553032 Batch 11/18, Loss: 0.0002796532935462892 Epoch 654/1500

Batch 1/18, Loss: 0.00037633179454132915 Batch 11/18, Loss: 0.0002092055801767856 Epoch 655/1500

Batch 1/18, Loss: 0.0003414143284317106 Batch 11/18, Loss: 0.0006174860172905028 Epoch 656/1500

Batch 1/18, Loss: 0.0002021759864874184 Batch 11/18, Loss: 0.0002530732599552721 Epoch 657/1500

Batch 1/18, Loss: 0.00018545641796663404 Batch 11/18, Loss: 0.00038510706508532166 Epoch 658/1500

Batch 1/18, Loss: 0.0002896553778555244
Batch 11/18, Loss: 0.00020099562243558466
Epoch 659/1500

Batch 1/18, Loss: 0.0002218356530647725
Batch 11/18, Loss: 0.0003264890401624143

Epoch 660/1500

Batch 1/18, Loss: 0.0002488828031346202 Batch 11/18, Loss: 0.0002455185167491436 Epoch 661/1500

Batch 1/18, Loss: 0.0004173176712356508 Batch 11/18, Loss: 0.00015292321040760726 Epoch 662/1500

Batch 1/18, Loss: 0.00030092656379565597 Batch 11/18, Loss: 0.0003014281392097473 Epoch 663/1500

Batch 1/18, Loss: 0.000776764762122184 Batch 11/18, Loss: 0.00019128277199342847 Epoch 664/1500

Batch 1/18, Loss: 0.00018272250599693507 Batch 11/18, Loss: 0.00022479052131529897 Epoch 665/1500

Batch 1/18, Loss: 0.0002322496147826314 Batch 11/18, Loss: 0.000213923558476381 Epoch 666/1500

Batch 1/18, Loss: 0.0002922650019172579 Batch 11/18, Loss: 0.0001574308262206614 Epoch 667/1500

Batch 1/18, Loss: 0.00025682098930701613 Batch 11/18, Loss: 0.00030603722552768886 Epoch 668/1500

Epoch 669/1500

Batch 1/18, Loss: 0.00026293168775737286 Batch 11/18, Loss: 0.0005544606246985495 Epoch 670/1500

Batch 1/18, Loss: 0.0012550661340355873 Batch 11/18, Loss: 0.00023886244161985815 Epoch 671/1500

Batch 1/18, Loss: 0.0002943449071608484 Batch 11/18, Loss: 0.00035177069366909564 Epoch 672/1500

Batch 1/18, Loss: 0.00023135921219363809 Batch 11/18, Loss: 0.0006835947278887033 Epoch 673/1500

Batch 1/18, Loss: 0.00023230221995618194 Batch 11/18, Loss: 0.0002817223721649498 Epoch 674/1500

Batch 1/18, Loss: 0.0001985181588679552 Batch 11/18, Loss: 0.0001748240174492821 Epoch 675/1500

Batch 1/18, Loss: 0.00020517813391052186 Batch 11/18, Loss: 0.00030801701359450817 Epoch 676/1500

Batch 1/18, Loss: 0.00014643925533164293 Batch 11/18, Loss: 0.00023246493947226554 Epoch 677/1500

Batch 1/18, Loss: 0.00022631033789366484 Batch 11/18, Loss: 0.0006325677968561649 Epoch 678/1500

Batch 1/18, Loss: 0.0005802130908705294 Batch 11/18, Loss: 0.0002779140486381948 Epoch 679/1500

Batch 1/18, Loss: 0.0004221741983201355
Batch 11/18, Loss: 0.00021220470080152154
Epoch 680/1500

Batch 1/18, Loss: 0.0003496110439300537 Batch 11/18, Loss: 0.0002220780006609857 Epoch 681/1500

Batch 1/18, Loss: 0.0007069532875902951 Batch 11/18, Loss: 0.0003463721659500152 Epoch 682/1500

Batch 1/18, Loss: 0.00025315085076726973 Batch 11/18, Loss: 0.0002277956809848547 Epoch 683/1500

Batch 1/18, Loss: 0.00033433359931223094 Batch 11/18, Loss: 0.0001793231349438429 Epoch 684/1500

Epoch 685/1500

Batch 1/18, Loss: 0.00015697750495746732 Batch 11/18, Loss: 0.00028159579960629344 Epoch 686/1500

Batch 1/18, Loss: 0.0002581734152045101 Batch 11/18, Loss: 0.00030652416171506047 Epoch 687/1500

Batch 1/18, Loss: 0.00019841011089738458 Batch 11/18, Loss: 0.00027487013721838593 Epoch 688/1500

Batch 1/18, Loss: 0.00019428135419730097 Batch 11/18, Loss: 0.0002601983433123678 Epoch 689/1500

Batch 1/18, Loss: 0.00031785794999450445 Batch 11/18, Loss: 0.0003684621478896588 Epoch 690/1500

Batch 1/18, Loss: 0.00028650229796767235 Batch 11/18, Loss: 0.0003102314949501306 Epoch 691/1500

Batch 1/18, Loss: 0.00020918644440826029 Batch 11/18, Loss: 0.0002995994291268289 Epoch 692/1500

Batch 1/18, Loss: 0.00022965218522585928 Batch 11/18, Loss: 0.0002276991435792297 Epoch 693/1500

Batch 1/18, Loss: 0.0004679967532865703 Batch 11/18, Loss: 0.00033760713995434344 Epoch 694/1500

Batch 1/18, Loss: 0.00019188792794011533 Batch 11/18, Loss: 0.0001932553423102945 Epoch 695/1500

Batch 1/18, Loss: 0.00019754284585360438 Batch 11/18, Loss: 0.0003889824729412794 Epoch 696/1500

Batch 1/18, Loss: 0.00022263001301325858 Batch 11/18, Loss: 0.0001900535135064274 Epoch 697/1500

Batch 1/18, Loss: 0.000274301681201905 Batch 11/18, Loss: 0.0003791780909523368 Epoch 698/1500

Batch 1/18, Loss: 0.0002107258333126083 Batch 11/18, Loss: 0.0002505670126993209 Epoch 699/1500

Batch 1/18, Loss: 0.00030289357528090477 Batch 11/18, Loss: 0.000350084068486467 Epoch 700/1500

Batch 11/18, Loss: 0.00017725132056511939 Epoch 701/1500

Batch 1/18, Loss: 0.00020463598775677383 Batch 11/18, Loss: 0.000279150262940675 After epoch 700, loss=0.000293388293357566 Epoch 702/1500

Batch 1/18, Loss: 0.00022548683045897633 Batch 11/18, Loss: 0.0004466015670914203 Epoch 703/1500

Batch 1/18, Loss: 0.001238883240148425 Batch 11/18, Loss: 0.0002579657593742013 Epoch 704/1500

Batch 1/18, Loss: 0.0003141150518786162 Batch 11/18, Loss: 0.00029342895140871406 Epoch 705/1500

Batch 1/18, Loss: 0.0001664586889091879 Batch 11/18, Loss: 0.0012233894085511565 Epoch 706/1500

Batch 1/18, Loss: 0.00020538389799185097 Batch 11/18, Loss: 0.0002152957022190094 Epoch 707/1500

Batch 1/18, Loss: 0.0003102837654296309 Batch 11/18, Loss: 0.00014877828652970493 Epoch 708/1500

Batch 1/18, Loss: 0.0013105068355798721
Batch 11/18, Loss: 0.00015562052431050688
Epoch 709/1500

Batch 1/18, Loss: 0.00023048900766298175 Batch 11/18, Loss: 0.0002779476635623723 Epoch 710/1500

Batch 1/18, Loss: 0.00023190492356661707 Batch 11/18, Loss: 0.000206321245059371 Epoch 711/1500

Batch 1/18, Loss: 0.000401073950342834 Batch 11/18, Loss: 0.0004157968214713037 Epoch 712/1500

Batch 1/18, Loss: 0.0002103059960063547 Batch 11/18, Loss: 0.0012594577856361866 Epoch 713/1500

Batch 1/18, Loss: 0.0003273000766057521 Batch 11/18, Loss: 0.0002710582048166543 Epoch 714/1500

Batch 1/18, Loss: 0.00032736166031099856 Batch 11/18, Loss: 0.00017654214752838016 Epoch 715/1500

Batch 1/18, Loss: 0.0002964204759337008 Batch 11/18, Loss: 0.0002610835654195398 Epoch 716/1500

Batch 11/18, Loss: 0.0001944559917319566

Epoch 717/1500

Batch 1/18, Loss: 0.00020361386123113334

Batch 11/18, Loss: 0.0002601842279545963

Epoch 718/1500

Batch 1/18, Loss: 0.0002338187478017062

Batch 11/18, Loss: 0.0002004221169045195

Epoch 719/1500

Batch 1/18, Loss: 0.0002653386036399752

Batch 11/18, Loss: 0.0001604815770406276

Epoch 720/1500

Batch 1/18, Loss: 0.00018744288536254317

Batch 11/18, Loss: 0.00021290230506565422

Epoch 721/1500

Batch 1/18, Loss: 0.00033792719477787614

Batch 11/18, Loss: 0.0012012962251901627

Epoch 722/1500

Batch 1/18, Loss: 0.00021035003010183573

Batch 11/18, Loss: 0.00018244722741656005

Epoch 723/1500

Batch 1/18, Loss: 0.00019988174608442932

Batch 11/18, Loss: 0.00027278202469460666

Epoch 724/1500

Batch 1/18, Loss: 0.00012636225437745452

Batch 11/18, Loss: 0.0001746183552313596

Epoch 725/1500

Batch 1/18, Loss: 0.0002866844879463315

Batch 11/18, Loss: 0.00014178399578668177

Epoch 726/1500

Batch 1/18, Loss: 0.0002559481072239578

Batch 11/18, Loss: 0.00015675918257329613

Epoch 727/1500

Batch 1/18, Loss: 0.0002114164672093466

Batch 11/18, Loss: 0.0001959843939403072

Epoch 728/1500

Batch 1/18, Loss: 0.00025892985286191106

Batch 11/18, Loss: 0.0002998708514496684

Epoch 729/1500

Batch 1/18, Loss: 0.0006586810923181474

Batch 11/18, Loss: 0.00014144365559332073

Epoch 730/1500

Batch 1/18, Loss: 0.00023298322048503906

Batch 11/18, Loss: 0.0003077880246564746

Epoch 731/1500

Batch 1/18, Loss: 0.00016060499183367938

Batch 11/18, Loss: 0.00026381172938272357

Epoch 732/1500

Batch 1/18, Loss: 0.00025316167739219964 Batch 11/18, Loss: 0.00023865143884904683

Epoch 733/1500

Batch 1/18, Loss: 0.00013970959116704762 Batch 11/18, Loss: 0.00018778405501507223 Epoch 734/1500

Batch 1/18, Loss: 0.0003276387869846076 Batch 11/18, Loss: 0.00011735578300431371 Epoch 735/1500

Batch 1/18, Loss: 0.0001745065674185753 Batch 11/18, Loss: 0.00018638120673131198 Epoch 736/1500

Batch 1/18, Loss: 0.0007992875762283802 Batch 11/18, Loss: 0.00011996610555797815 Epoch 737/1500

Batch 1/18, Loss: 0.0016385456547141075 Batch 11/18, Loss: 0.00026618476840667427 Epoch 738/1500

Batch 1/18, Loss: 0.00011737643944798037 Batch 11/18, Loss: 0.0003828633634839207 Epoch 739/1500

Batch 1/18, Loss: 0.0003818560508079827 Batch 11/18, Loss: 0.00026545231230556965 Epoch 740/1500

Batch 1/18, Loss: 0.00024899819982238114 Batch 11/18, Loss: 0.0002734852605499327 Epoch 741/1500

Batch 1/18, Loss: 0.00018820610421244055 Batch 11/18, Loss: 0.0012017618864774704 Epoch 742/1500

Batch 1/18, Loss: 0.0005682040355168283 Batch 11/18, Loss: 0.00017007964197546244 Epoch 743/1500

Batch 1/18, Loss: 0.0005654906271956861 Batch 11/18, Loss: 0.0013152750907465816 Epoch 744/1500

Batch 1/18, Loss: 0.00025545951211825013 Batch 11/18, Loss: 0.00025857603759504855 Epoch 745/1500

Batch 1/18, Loss: 0.0005957018001936376 Batch 11/18, Loss: 0.0002442167024128139 Epoch 746/1500

Batch 1/18, Loss: 0.0002979820710606873 Batch 11/18, Loss: 0.0003153684956487268 Epoch 747/1500

Batch 1/18, Loss: 0.0003466219932306558 Batch 11/18, Loss: 0.0013208994641900063 Epoch 748/1500 Batch 1/18, Loss: 0.00016737327678129077 Batch 11/18, Loss: 0.000615401251707226

Epoch 749/1500

Batch 1/18, Loss: 0.001501276739872992 Batch 11/18, Loss: 0.00025736389216035604 Epoch 750/1500

Batch 1/18, Loss: 0.0003828644403256476 Batch 11/18, Loss: 0.0003030308580491692

Epoch 751/1500

Batch 1/18, Loss: 0.00018032535444945097 Batch 11/18, Loss: 0.0001471306459279731 After epoch 750, loss=0.00011239390732953325 Epoch 752/1500

Batch 1/18, Loss: 0.00021644719527103007 Batch 11/18, Loss: 0.00038426456740126014 Epoch 753/1500

Batch 1/18, Loss: 0.0002580495784059167 Batch 11/18, Loss: 0.00055877206614241 Epoch 754/1500

Batch 1/18, Loss: 0.0012278755893930793 Batch 11/18, Loss: 0.00019297176913823932 Epoch 755/1500

Batch 1/18, Loss: 0.00021194542932789773 Batch 11/18, Loss: 0.00027719041099771857 Epoch 756/1500

Batch 1/18, Loss: 0.00044244120363146067 Batch 11/18, Loss: 0.0001683983427938074 Epoch 757/1500

Batch 1/18, Loss: 0.00018312048632651567 Batch 11/18, Loss: 0.00018137932056561112 Epoch 758/1500

Batch 1/18, Loss: 0.00024982038303278387 Batch 11/18, Loss: 0.00026802081265486777 Epoch 759/1500

Batch 1/18, Loss: 0.0003227918059565127 Batch 11/18, Loss: 0.000211579812457785 Epoch 760/1500

Batch 1/18, Loss: 0.0005115808453410864 Batch 11/18, Loss: 0.001355801010504365 Epoch 761/1500

Batch 1/18, Loss: 0.0005853191833011806 Batch 11/18, Loss: 0.0001929605205077678 Epoch 762/1500

Batch 1/18, Loss: 0.0002948428154923022 Batch 11/18, Loss: 0.00022599910153076053 Epoch 763/1500

Batch 1/18, Loss: 0.00015572180564049631 Batch 11/18, Loss: 0.0004196689114905894 Epoch 764/1500

Batch 1/18, Loss: 0.00021208496764302254 Batch 11/18, Loss: 0.000139833617140539

Epoch 765/1500

Batch 1/18, Loss: 0.00022699436522088945 Batch 11/18, Loss: 0.0011945250444114208 Epoch 766/1500

Batch 1/18, Loss: 0.00011347245890647173 Batch 11/18, Loss: 0.0001935390755534172

Epoch 767/1500

Batch 1/18, Loss: 0.00024027879408095032 Batch 11/18, Loss: 0.0002769099664874375 Epoch 768/1500

Batch 1/18, Loss: 0.0002402565150987357 Batch 11/18, Loss: 0.0001506769040133804 Epoch 769/1500

Batch 1/18, Loss: 0.00013680584379471838 Batch 11/18, Loss: 0.00033292965963482857 Epoch 770/1500

Batch 1/18, Loss: 0.00026732610422186553 Batch 11/18, Loss: 0.00025406989152543247 Epoch 771/1500

Batch 1/18, Loss: 0.00020887787104584277 Batch 11/18, Loss: 0.0001663618750171736 Epoch 772/1500

Batch 1/18, Loss: 0.00042386900167912245
Batch 11/18, Loss: 0.00026002919184975326
Epoch 773/1500

Batch 1/18, Loss: 0.000214677449548617 Batch 11/18, Loss: 0.0006261918460950255 Epoch 774/1500

Batch 1/18, Loss: 0.00023134294315241277
Batch 11/18, Loss: 0.00017160203424282372
Epoch 775/1500

Batch 1/18, Loss: 0.00014576576359104365 Batch 11/18, Loss: 0.00024130033852998167 Epoch 776/1500

Batch 1/18, Loss: 0.00018070419901050627
Batch 11/18, Loss: 0.001159587176516652

Epoch 777/1500

Batch 1/18, Loss: 0.0003217656339984387 Batch 11/18, Loss: 0.00038764672353863716 Epoch 778/1500

Batch 1/18, Loss: 0.00039376626955345273 Batch 11/18, Loss: 0.001319454051554203 Epoch 779/1500

Batch 1/18, Loss: 0.0002037727099377662 Batch 11/18, Loss: 0.0003557594900485128 Epoch 780/1500

Batch 1/18, Loss: 0.00018108052609022707 Batch 11/18, Loss: 0.00025489251129329205

Epoch 781/1500

Batch 1/18, Loss: 0.00035091678728349507 Batch 11/18, Loss: 0.0004598189552780241

Epoch 782/1500

Batch 1/18, Loss: 0.0002415367343928665 Batch 11/18, Loss: 0.0002886363072320819

Epoch 783/1500

Batch 1/18, Loss: 0.00012106839858461171
Batch 11/18, Loss: 0.00024760173982940614

Epoch 784/1500

Batch 1/18, Loss: 0.00022445927606895566 Batch 11/18, Loss: 0.00019455428991932422 Epoch 785/1500

Batch 1/18, Loss: 0.0002133913803845644
Batch 11/18, Loss: 0.0005487387534230947
Epoch 786/1500

Batch 1/18, Loss: 0.0006901659653522074 Batch 11/18, Loss: 0.00011106849706266075 Epoch 787/1500

Batch 1/18, Loss: 0.00032903594546951354 Batch 11/18, Loss: 0.00028204324189573526 Epoch 788/1500

Batch 1/18, Loss: 0.0002325659297639504 Batch 11/18, Loss: 0.0001548758737044409 Epoch 789/1500

Batch 1/18, Loss: 0.00021575004211626947 Batch 11/18, Loss: 0.0002496231463737786 Epoch 790/1500

Batch 1/18, Loss: 0.0002657477161847055 Batch 11/18, Loss: 0.00043197203194722533 Epoch 791/1500

Batch 1/18, Loss: 0.0001929249701788649 Batch 11/18, Loss: 0.0003309586027171463 Epoch 792/1500

Batch 1/18, Loss: 0.0005211552488617599 Batch 11/18, Loss: 0.0001227894681505859 Epoch 793/1500

Batch 1/18, Loss: 0.0002582260931376368
Batch 11/18, Loss: 0.00024026069149840623
Epoch 794/1500

Batch 1/18, Loss: 0.00021542652393691242 Batch 11/18, Loss: 0.0013769986107945442 Epoch 795/1500

Batch 1/18, Loss: 0.0001581076066941023 Batch 11/18, Loss: 0.0002575546386651695 Epoch 796/1500

Batch 1/18, Loss: 0.00025545089738443494 Batch 11/18, Loss: 0.00033396537764929235

Epoch 797/1500

Batch 1/18, Loss: 0.00021131944959051907 Batch 11/18, Loss: 0.00021833770733792335

Epoch 798/1500

Batch 1/18, Loss: 0.00031243410194292665 Batch 11/18, Loss: 0.00023593063815496862 Epoch 799/1500

Batch 1/18, Loss: 0.0003772612544707954 Batch 11/18, Loss: 0.00021886259492021054 Epoch 800/1500

Batch 1/18, Loss: 0.00013203400885686278 Batch 11/18, Loss: 0.00025906861992552876 Epoch 801/1500

Batch 1/18, Loss: 0.00025308228214271367 Batch 11/18, Loss: 0.00020078325178474188 After epoch 800, loss=0.00023005552066024393 Epoch 802/1500

Batch 1/18, Loss: 0.00024907244369387627 Batch 11/18, Loss: 0.00019694934599101543 Epoch 803/1500

Batch 1/18, Loss: 0.00033191393595188856 Batch 11/18, Loss: 0.00019950744172092527 Epoch 804/1500

Batch 1/18, Loss: 0.00017898912483360618 Batch 11/18, Loss: 0.00019840025925077498 Epoch 805/1500

Batch 1/18, Loss: 0.0002252202684758231 Batch 11/18, Loss: 0.00027654171572066844 Epoch 806/1500

Batch 1/18, Loss: 0.00016016323934309185 Batch 11/18, Loss: 0.00022462254855781794 Epoch 807/1500

Batch 1/18, Loss: 0.0003012519155163318 Batch 11/18, Loss: 0.0016673874342814088 Epoch 808/1500

Batch 1/18, Loss: 0.00030054827220737934
Batch 11/18, Loss: 0.00022014891146682203
Epoch 809/1500

Batch 1/18, Loss: 0.0001990846503758803 Batch 11/18, Loss: 0.00014977992395870388 Epoch 810/1500

Batch 1/18, Loss: 0.0004278800333850086 Batch 11/18, Loss: 0.0001872953143902123 Epoch 811/1500

Epoch 812/1500

Batch 1/18, Loss: 0.00014381128130480647
Batch 11/18, Loss: 0.00015987598453648388

Epoch 813/1500

Batch 1/18, Loss: 0.0001522148959338665 Batch 11/18, Loss: 0.0004138288786634803 Epoch 814/1500

Batch 1/18, Loss: 0.00015080865705385804 Batch 11/18, Loss: 0.0004163677804172039 Epoch 815/1500

Batch 1/18, Loss: 0.0002344669628655538 Batch 11/18, Loss: 0.00025473584537394345 Epoch 816/1500

Batch 1/18, Loss: 0.0006096112192608416 Batch 11/18, Loss: 0.0002250780671602115 Epoch 817/1500

Batch 1/18, Loss: 0.00028798525454476476
Batch 11/18, Loss: 0.0002173481188947335
Epoch 818/1500

Batch 1/18, Loss: 0.00024907561601139605 Batch 11/18, Loss: 0.00020756815501954406 Epoch 819/1500

Batch 1/18, Loss: 0.0005175339174456894 Batch 11/18, Loss: 0.00024149198725353926 Epoch 820/1500

Batch 1/18, Loss: 0.0001472796284360811 Batch 11/18, Loss: 0.00019988941494375467 Epoch 821/1500

Batch 1/18, Loss: 0.0011739239562302828 Batch 11/18, Loss: 0.00018367696611676365 Epoch 822/1500

Batch 1/18, Loss: 0.0002587297058198601 Batch 11/18, Loss: 0.000151510612340644 Epoch 823/1500

Batch 1/18, Loss: 0.00014942472625989467 Batch 11/18, Loss: 0.00047251165960915387 Epoch 824/1500

Batch 1/18, Loss: 0.00016944430535659194 Batch 11/18, Loss: 0.00024468480842188 Epoch 825/1500

Batch 1/18, Loss: 0.00047050314606167376 Batch 11/18, Loss: 0.0005897855153307319 Epoch 826/1500

Batch 1/18, Loss: 0.00014773460861761123 Batch 11/18, Loss: 0.00013296557881403714 Epoch 827/1500

Epoch 828/1500

Batch 1/18, Loss: 0.00022962258663028479 Batch 11/18, Loss: 0.000278372346656397 Epoch 829/1500

Batch 1/18, Loss: 0.00025185567210428417 Batch 11/18, Loss: 0.00014585039753001183 Epoch 830/1500

Batch 1/18, Loss: 0.0005806528497487307 Batch 11/18, Loss: 0.00020246204803697765 Epoch 831/1500

Batch 1/18, Loss: 0.00041498473729006946 Batch 11/18, Loss: 0.0003201457147952169 Epoch 832/1500

Batch 1/18, Loss: 0.0002222218899987638
Batch 11/18, Loss: 0.00026092788903042674
Epoch 833/1500

Batch 1/18, Loss: 0.0001982783287530765 Batch 11/18, Loss: 0.0004416945157572627 Epoch 834/1500

Batch 1/18, Loss: 0.00017021055100485682 Batch 11/18, Loss: 0.0002533334190957248 Epoch 835/1500

Batch 1/18, Loss: 0.00018508106586523354 Batch 11/18, Loss: 0.0002630960661917925 Epoch 836/1500

Batch 1/18, Loss: 0.00014468037988990545 Batch 11/18, Loss: 0.0002656778960954398 Epoch 837/1500

Batch 1/18, Loss: 0.0012017580447718501 Batch 11/18, Loss: 0.0008290756959468126 Epoch 838/1500

Batch 1/18, Loss: 0.00033406587317585945 Batch 11/18, Loss: 0.00028291757917031646 Epoch 839/1500

Batch 1/18, Loss: 0.00026183619047515094 Batch 11/18, Loss: 0.00028975773602724075 Epoch 840/1500

Batch 1/18, Loss: 0.00018714944599196315 Batch 11/18, Loss: 0.00017021209350787103 Epoch 841/1500

Batch 1/18, Loss: 0.00019468736718408763 Batch 11/18, Loss: 0.0002216765860794112 Epoch 842/1500

Batch 1/18, Loss: 0.00023642067390028387 Batch 11/18, Loss: 0.00015481471200473607 Epoch 843/1500

Epoch 844/1500

Batch 1/18, Loss: 0.00010298770939698443 Batch 11/18, Loss: 0.0003501136670820415 Epoch 845/1500

Batch 1/18, Loss: 0.00017142690194305032 Batch 11/18, Loss: 0.00017606132314540446 Epoch 846/1500

Batch 1/18, Loss: 0.00034175312612205744
Batch 11/18, Loss: 0.00016858222079463303
Epoch 847/1500

Batch 1/18, Loss: 0.000189421305549331 Batch 11/18, Loss: 0.00014528488100040704 Epoch 848/1500

Batch 1/18, Loss: 0.00014297777670435607 Batch 11/18, Loss: 0.0001543709367979318 Epoch 849/1500

Batch 1/18, Loss: 0.00013563333777710795 Batch 11/18, Loss: 0.0005621769232675433 Epoch 850/1500

Batch 1/18, Loss: 0.0013721365248784423 Batch 11/18, Loss: 0.00014471962640527636 Epoch 851/1500

Batch 1/18, Loss: 0.0002885946596506983 Batch 11/18, Loss: 0.0002194461558246985 After epoch 850, loss=0.00024037208640947938 Epoch 852/1500

Batch 1/18, Loss: 0.0001904396922327578
Batch 11/18, Loss: 0.00038009879062883556
Epoch 853/1500

Batch 1/18, Loss: 0.0001630441111046821 Batch 11/18, Loss: 0.00022577626805286855 Epoch 854/1500

Batch 1/18, Loss: 0.00026900338707491755
Batch 11/18, Loss: 0.00024315278278663754
Epoch 855/1500

Batch 1/18, Loss: 0.00016794155817478895 Batch 11/18, Loss: 0.0002017946681007743 Epoch 856/1500

Batch 1/18, Loss: 0.00022294926748145372 Batch 11/18, Loss: 0.001117443898692727 Epoch 857/1500

Batch 1/18, Loss: 0.00013909161498304456
Batch 11/18, Loss: 0.00022345525212585926
Epoch 858/1500

Batch 1/18, Loss: 0.0004099115030840039 Batch 11/18, Loss: 0.0011227211216464639 Epoch 859/1500 Batch 1/18, Loss: 0.00014093999925535172 Batch 11/18, Loss: 0.0003480227314867079

Epoch 860/1500

Batch 1/18, Loss: 0.00015562333283014596 Batch 11/18, Loss: 0.00018099007138516754 Epoch 861/1500

Batch 1/18, Loss: 0.00025714444927871227 Batch 11/18, Loss: 0.0002472435007803142 Epoch 862/1500

Batch 1/18, Loss: 0.0003874879330396652 Batch 11/18, Loss: 0.00028917985036969185 Epoch 863/1500

Batch 1/18, Loss: 0.00020836456678807735 Batch 11/18, Loss: 0.00026979504036717117 Epoch 864/1500

Batch 1/18, Loss: 0.0003904326003976166
Batch 11/18, Loss: 0.00014130491763353348
Epoch 865/1500

Batch 1/18, Loss: 0.0002129232743754983 Batch 11/18, Loss: 0.00017987997853197157 Epoch 866/1500

Batch 1/18, Loss: 0.00030496728140860796 Batch 11/18, Loss: 0.00029951182659715414 Epoch 867/1500

Batch 1/18, Loss: 0.0001530544104753062 Batch 11/18, Loss: 0.0002602094318717718 Epoch 868/1500

Batch 1/18, Loss: 0.0001463067892473191 Batch 11/18, Loss: 0.00022767596237827092 Epoch 869/1500

Batch 1/18, Loss: 0.0002243703493149951 Batch 11/18, Loss: 0.00013924381346441805 Epoch 870/1500

Batch 1/18, Loss: 0.0002849385782610625 Batch 11/18, Loss: 0.00024189442046917975 Epoch 871/1500

Batch 1/18, Loss: 0.00030120176961645484 Batch 11/18, Loss: 0.0011847064597532153 Epoch 872/1500

Batch 1/18, Loss: 0.00028641303651966155 Batch 11/18, Loss: 0.00027921449509449303 Epoch 873/1500

Batch 1/18, Loss: 0.00022370250371750444 Batch 11/18, Loss: 0.00047429525875486434 Epoch 874/1500

Batch 1/18, Loss: 0.00019028854148928076 Batch 11/18, Loss: 0.00019004131900146604 Epoch 875/1500 Batch 1/18, Loss: 0.00022769095085095614 Batch 11/18, Loss: 0.0001568688894622028

Epoch 876/1500

Batch 1/18, Loss: 0.00015006744069978595 Batch 11/18, Loss: 0.00017306247900705785 Epoch 877/1500

Batch 1/18, Loss: 0.0003604719240684062 Batch 11/18, Loss: 0.0002341271610930562 Epoch 878/1500

Batch 1/18, Loss: 0.00024230244162026793 Batch 11/18, Loss: 0.0005673182895407081 Epoch 879/1500

Batch 1/18, Loss: 0.00018071210070047528 Batch 11/18, Loss: 0.000293499615509063 Epoch 880/1500

Batch 1/18, Loss: 0.00019963632803410292 Batch 11/18, Loss: 0.00032507150899618864 Epoch 881/1500

Batch 1/18, Loss: 0.0011246296344324946 Batch 11/18, Loss: 0.00036529015051200986 Epoch 882/1500

Batch 1/18, Loss: 0.00023834564490243793 Batch 11/18, Loss: 0.00025160491350106895 Epoch 883/1500

Batch 1/18, Loss: 0.0001388859818689525 Batch 11/18, Loss: 0.0003211912408005446 Epoch 884/1500

Batch 1/18, Loss: 0.0007677365210838616 Batch 11/18, Loss: 0.0001934421161422506 Epoch 885/1500

Batch 1/18, Loss: 0.00023124426661524922 Batch 11/18, Loss: 0.00045509275514632463 Epoch 886/1500

Batch 1/18, Loss: 0.0002525162126403302 Batch 11/18, Loss: 0.00020491122268140316 Epoch 887/1500

Batch 1/18, Loss: 0.00015872826043050736 Batch 11/18, Loss: 0.00016806405619718134 Epoch 888/1500

Batch 1/18, Loss: 0.00020353389845695347 Batch 11/18, Loss: 0.00021729324362240732 Epoch 889/1500

Batch 1/18, Loss: 0.0003708766889758408 Batch 11/18, Loss: 0.00022950187849346548 Epoch 890/1500

Batch 1/18, Loss: 0.0001741141313686967 Batch 11/18, Loss: 0.0002323977096239105 Epoch 891/1500 Batch 1/18, Loss: 0.0002475368673913181 Batch 11/18, Loss: 0.00019651217735372484

Epoch 892/1500

Batch 1/18, Loss: 0.00017926542204804718
Batch 11/18, Loss: 0.0015010946663096547

Epoch 893/1500

Batch 1/18, Loss: 0.0001856863673310727 Batch 11/18, Loss: 0.00021596616716124117 Epoch 894/1500

Batch 1/18, Loss: 0.00019368554058019072 Batch 11/18, Loss: 0.00013973760360386223 Epoch 895/1500

Batch 1/18, Loss: 0.00017124271835200489 Batch 11/18, Loss: 0.00015755603089928627 Epoch 896/1500

Batch 1/18, Loss: 0.0011137300170958042 Batch 11/18, Loss: 0.00043033453403040767 Epoch 897/1500

Batch 1/18, Loss: 0.00014598050620406866 Batch 11/18, Loss: 0.0005759149789810181 Epoch 898/1500

Batch 1/18, Loss: 0.00021663028746843338 Batch 11/18, Loss: 0.0005923631833866239 Epoch 899/1500

Batch 1/18, Loss: 0.00017727460362948477 Batch 11/18, Loss: 0.0011707530356943607 Epoch 900/1500

Batch 1/18, Loss: 0.00016940056229941547 Batch 11/18, Loss: 0.00018382551206741482 Epoch 901/1500

Batch 1/18, Loss: 0.0004106038250029087 Batch 11/18, Loss: 0.00022061914205551147 After epoch 900, loss=0.00016042536299210042 Epoch 902/1500

Batch 1/18, Loss: 0.0007803526823408902 Batch 11/18, Loss: 0.00021364411804825068 Epoch 903/1500

Batch 1/18, Loss: 0.0002837515203282237 Batch 11/18, Loss: 0.0011090742191299796 Epoch 904/1500

Batch 1/18, Loss: 0.00022583721147384495 Batch 11/18, Loss: 0.0002711667330004275 Epoch 905/1500

Batch 1/18, Loss: 0.0006549290264956653 Batch 11/18, Loss: 0.00018595847359392792 Epoch 906/1500

Batch 1/18, Loss: 0.000166387835633941 Batch 11/18, Loss: 0.0012639211490750313 Epoch 907/1500

Batch 1/18, Loss: 0.0002737554023042321 Batch 11/18, Loss: 0.00016434653662145138

Epoch 908/1500

Batch 1/18, Loss: 0.00025868869852274656 Batch 11/18, Loss: 0.00025852260296233

Epoch 909/1500

Batch 1/18, Loss: 0.00031400431180372834
Batch 11/18, Loss: 0.0005841508391313255

Epoch 910/1500

Batch 1/18, Loss: 0.00024400655820500106
Batch 11/18, Loss: 0.0002732898574322462

Epoch 911/1500

Batch 1/18, Loss: 0.000303672015434131 Batch 11/18, Loss: 0.00030125226476229727 Epoch 912/1500

Batch 1/18, Loss: 0.00022409103985410184 Batch 11/18, Loss: 0.00014152801304589957 Epoch 913/1500

Batch 1/18, Loss: 0.0007895224262028933
Batch 11/18, Loss: 0.00016982649685814977
Epoch 914/1500

Batch 1/18, Loss: 0.00019311398500576615 Batch 11/18, Loss: 0.00011018187797162682 Epoch 915/1500

Batch 1/18, Loss: 0.00024692880106158555 Batch 11/18, Loss: 0.00023563997820019722 Epoch 916/1500

Batch 1/18, Loss: 0.00026981643168255687 Batch 11/18, Loss: 0.0001433018915122375 Epoch 917/1500

Batch 1/18, Loss: 0.0002716751769185066
Batch 11/18, Loss: 0.00019514354062266648
Epoch 918/1500

Batch 1/18, Loss: 0.0003028127539437264
Batch 11/18, Loss: 0.00021907227346673608
Epoch 919/1500

Batch 1/18, Loss: 0.00021007578470744193 Batch 11/18, Loss: 0.0003259987570345402 Epoch 920/1500

Batch 1/18, Loss: 0.00047284489846788347 Batch 11/18, Loss: 0.00029427907429635525 Epoch 921/1500

Batch 1/18, Loss: 0.0001272617228096351 Batch 11/18, Loss: 0.00018681914662010968 Epoch 922/1500

Batch 1/18, Loss: 0.0001800592290237546 Batch 11/18, Loss: 0.00010887315875152126 Epoch 923/1500

Batch 1/18, Loss: 0.00014261298929341137 Batch 11/18, Loss: 0.00016540173965040594

Epoch 924/1500

Batch 1/18, Loss: 0.00017842916713561863
Batch 11/18, Loss: 0.00019682702259160578

Epoch 925/1500

Batch 1/18, Loss: 0.00043917918810620904 Batch 11/18, Loss: 0.0005561271100305021 Epoch 926/1500

Batch 1/18, Loss: 0.00018842340796254575 Batch 11/18, Loss: 0.0013779564760625362 Epoch 927/1500

Batch 1/18, Loss: 0.0006503778859041631 Batch 11/18, Loss: 0.00017141910211648792 Epoch 928/1500

Batch 1/18, Loss: 0.00027823526761494577 Batch 11/18, Loss: 0.0002524745650589466 Epoch 929/1500

Batch 1/18, Loss: 0.0001814260904211551 Batch 11/18, Loss: 0.00024815250071696937 Epoch 930/1500

Batch 1/18, Loss: 0.0005356048932299018
Batch 11/18, Loss: 0.00035632005892693996
Epoch 931/1500

Batch 1/18, Loss: 0.0004949751310050488 Batch 11/18, Loss: 0.0001416624872945249 Epoch 932/1500

Batch 1/18, Loss: 0.00021666470274794847 Batch 11/18, Loss: 0.0010806899517774582 Epoch 933/1500

Batch 1/18, Loss: 0.0011802252847701311
Batch 11/18, Loss: 0.0002071206399705261
Epoch 934/1500

Batch 1/18, Loss: 0.0003835410170722753
Batch 11/18, Loss: 0.00043419425492174923
Epoch 935/1500

Batch 1/18, Loss: 0.00011476482904981822 Batch 11/18, Loss: 0.00024170856340788305 Epoch 936/1500

Batch 1/18, Loss: 0.0005829194560647011 Batch 11/18, Loss: 0.00023335036530625075 Epoch 937/1500

Batch 1/18, Loss: 0.00048101029824465513 Batch 11/18, Loss: 0.0001523762330180034 Epoch 938/1500

Batch 1/18, Loss: 0.0005823284154757857 Batch 11/18, Loss: 0.00044727890053763986 Epoch 939/1500

Batch 1/18, Loss: 0.00017135859525296837

Batch 11/18, Loss: 0.00031925985240377486

Epoch 940/1500

Batch 1/18, Loss: 0.0005056667141616344

Batch 11/18, Loss: 0.0002773818850982934

Epoch 941/1500

Batch 1/18, Loss: 0.00018696821643970907

Batch 11/18, Loss: 0.00023516672081314027

Epoch 942/1500

Batch 1/18, Loss: 0.0001432974822819233

Batch 11/18, Loss: 0.00019466597586870193

Epoch 943/1500

Batch 1/18, Loss: 0.0006982730701565742

Batch 11/18, Loss: 0.00019385720952413976

Epoch 944/1500

Batch 1/18, Loss: 0.00022081985662225634

Batch 11/18, Loss: 0.0004823838244192302

Epoch 945/1500

Batch 1/18, Loss: 0.00022559065837413073

Batch 11/18, Loss: 0.00021773100888822228

Epoch 946/1500

Batch 1/18, Loss: 0.00012352591147646308

Batch 11/18, Loss: 0.00041619635885581374

Epoch 947/1500

Batch 1/18, Loss: 0.000292853539576754

Batch 11/18, Loss: 0.00022163527319207788

Epoch 948/1500

Batch 1/18, Loss: 0.0003746528527699411

Batch 11/18, Loss: 0.0002441930992063135

Epoch 949/1500

Batch 1/18, Loss: 0.0002208217338193208

Batch 11/18, Loss: 0.00018028999329544604

Epoch 950/1500

Batch 1/18, Loss: 0.0006664886022917926

Batch 11/18, Loss: 0.000177947455085814

Epoch 951/1500

Batch 1/18, Loss: 0.0002282215136801824

Batch 11/18, Loss: 0.00020269182277843356

After epoch 950, loss=0.00032424996607005596

Epoch 952/1500

Batch 1/18, Loss: 0.0004160981043241918

Batch 11/18, Loss: 0.00017327556270174682

Epoch 953/1500

Batch 1/18, Loss: 0.00012658243940677494

Batch 11/18, Loss: 0.00020636596309486777

Epoch 954/1500

Batch 11/18, Loss: 0.00040906068170443177 Epoch 955/1500

Batch 1/18, Loss: 0.00022222683764994144 Batch 11/18, Loss: 0.000306581670884043

Epoch 956/1500

Batch 1/18, Loss: 0.00041174094076268375 Batch 11/18, Loss: 0.00013272662181407213 Epoch 957/1500

Batch 1/18, Loss: 0.00023991642228793353 Batch 11/18, Loss: 0.000289165967842564 Epoch 958/1500

Batch 1/18, Loss: 0.0002002990513574332 Batch 11/18, Loss: 0.000351416296325624 Epoch 959/1500

Batch 1/18, Loss: 0.00018325337441638112 Batch 11/18, Loss: 0.00011065533180953935 Epoch 960/1500

Batch 1/18, Loss: 0.00038639301783405244
Batch 11/18, Loss: 0.00021517006098292768
Epoch 961/1500

Batch 1/18, Loss: 0.00015363862621597946
Batch 11/18, Loss: 0.00020101129484828562
Epoch 962/1500

Batch 1/18, Loss: 0.00023003203386906534 Batch 11/18, Loss: 0.0003007470804732293 Epoch 963/1500

Batch 1/18, Loss: 0.0001590268948348239 Batch 11/18, Loss: 0.00037140888161957264 Epoch 964/1500

Batch 1/18, Loss: 0.00017594652308616787 Batch 11/18, Loss: 0.00019909025286324322 Epoch 965/1500

Batch 1/18, Loss: 0.00016807987412903458
Batch 11/18, Loss: 0.00036688006366603076
Epoch 966/1500

Batch 1/18, Loss: 0.0004342872416600585 Batch 11/18, Loss: 0.0010491287102922797 Epoch 967/1500

Batch 1/18, Loss: 0.0001271665678359568
Batch 11/18, Loss: 0.0001992176112253219
Epoch 968/1500

Batch 1/18, Loss: 0.0002022032713284716 Batch 11/18, Loss: 0.00019011534459423274 Epoch 969/1500

Batch 1/18, Loss: 0.00014954640937503427 Batch 11/18, Loss: 0.00019029848044738173 Epoch 970/1500

Batch 11/18, Loss: 0.00016783640603534877 Epoch 971/1500

Batch 1/18, Loss: 0.0004036446916870773
Batch 11/18, Loss: 0.0006093459669500589

Epoch 972/1500

Batch 1/18, Loss: 0.00019779420108534396 Batch 11/18, Loss: 0.00013516303442884237 Epoch 973/1500

Batch 1/18, Loss: 0.0006221993244253099
Batch 11/18, Loss: 0.00014253090193960816
Epoch 974/1500

Batch 1/18, Loss: 0.00022381875896826386 Batch 11/18, Loss: 0.00019559274369385093 Epoch 975/1500

Batch 1/18, Loss: 0.00019764273019973189 Batch 11/18, Loss: 0.0001102183450711891 Epoch 976/1500

Batch 1/18, Loss: 0.0002140633441740647 Batch 11/18, Loss: 0.0001515606272732839 Epoch 977/1500

Batch 1/18, Loss: 0.0005332561559043825
Batch 11/18, Loss: 0.0002350343274883926

Epoch 978/1500

Batch 1/18, Loss: 0.00017741063493303955 Batch 11/18, Loss: 0.0002235516585642472 Epoch 979/1500

Batch 1/18, Loss: 0.000638989033177495 Batch 11/18, Loss: 0.00012703801621682942 Epoch 980/1500

Batch 1/18, Loss: 0.0001781431055860594 Batch 11/18, Loss: 0.00039214835851453245 Epoch 981/1500

Batch 1/18, Loss: 0.00014615223335567862 Batch 11/18, Loss: 0.00020741226035170257 Epoch 982/1500

Batch 1/18, Loss: 0.00019732020155061036 Batch 11/18, Loss: 0.00028473554993979633 Epoch 983/1500

Batch 1/18, Loss: 0.0001940267684403807 Batch 11/18, Loss: 0.00016784325998742133 Epoch 984/1500

Batch 1/18, Loss: 0.0002462358388584107 Batch 11/18, Loss: 0.00019442319171503186 Epoch 985/1500

Batch 1/18, Loss: 0.00012174568109912798 Batch 11/18, Loss: 0.00030855723889544606 Epoch 986/1500

Epoch 987/1500

Batch 1/18, Loss: 0.0001608479506103322 Batch 11/18, Loss: 0.00013103586388751864 Epoch 988/1500

Batch 1/18, Loss: 0.00019411722314544022 Batch 11/18, Loss: 0.0004825786454603076 Epoch 989/1500

Batch 1/18, Loss: 0.00017163240408990532 Batch 11/18, Loss: 0.0003716111823450774 Epoch 990/1500

Batch 1/18, Loss: 0.0002431640459690243 Batch 11/18, Loss: 0.00012256030458956957 Epoch 991/1500

Batch 1/18, Loss: 0.00020302613847889006 Batch 11/18, Loss: 0.00024609878892078996 Epoch 992/1500

Batch 1/18, Loss: 0.0002315899619134143 Batch 11/18, Loss: 0.0003347029851283878 Epoch 993/1500

Batch 1/18, Loss: 0.0003007652412634343 Batch 11/18, Loss: 0.00024167333322111517 Epoch 994/1500

Batch 1/18, Loss: 0.0001369714445900172 Batch 11/18, Loss: 0.00109987857285887 Epoch 995/1500

Batch 1/18, Loss: 0.0005658076843246818 Batch 11/18, Loss: 0.00015858010738156736 Epoch 996/1500

Batch 1/18, Loss: 0.00020470745221246034 Batch 11/18, Loss: 0.00034143883385695517 Epoch 997/1500

Batch 1/18, Loss: 0.0002723309735301882 Batch 11/18, Loss: 0.00024028815096244216 Epoch 998/1500

Batch 1/18, Loss: 0.00026116016670130193 Batch 11/18, Loss: 0.000628463109023869 Epoch 999/1500

Batch 1/18, Loss: 0.000144261954119429 Batch 11/18, Loss: 0.0002284540532855317 Epoch 1000/1500

Batch 1/18, Loss: 0.00042672757990658283 Batch 11/18, Loss: 0.00016409321688115597 Epoch 1001/1500

Batch 1/18, Loss: 0.00037379228160716593 Batch 11/18, Loss: 0.00023395093739964068 After epoch 1000, loss=0.0005238935700617731 Epoch 1002/1500 Batch 1/18, Loss: 0.00022834385163150728 Batch 11/18, Loss: 0.00011632333917077631

Epoch 1003/1500

Batch 1/18, Loss: 0.00016371847596019506 Batch 11/18, Loss: 0.0002148335479432717

Epoch 1004/1500

Batch 1/18, Loss: 0.00013124974793754518 Batch 11/18, Loss: 0.00013925870007369667 Epoch 1005/1500

Batch 1/18, Loss: 0.0001829104876378551 Batch 11/18, Loss: 0.0002322475629625842 Epoch 1006/1500

Batch 1/18, Loss: 0.00013387772196438164 Batch 11/18, Loss: 0.00020939615205861628 Epoch 1007/1500

Batch 1/18, Loss: 0.0002227428340120241 Batch 11/18, Loss: 0.00015126357902772725 Epoch 1008/1500

Batch 1/18, Loss: 0.00023178831906989217 Batch 11/18, Loss: 0.00018385380099061877 Epoch 1009/1500

Batch 1/18, Loss: 0.00016518864140380174 Batch 11/18, Loss: 0.0001576449431013316 Epoch 1010/1500

Batch 1/18, Loss: 0.0002058982354355976 Batch 11/18, Loss: 0.00024799403036013246 Epoch 1011/1500

Batch 1/18, Loss: 0.00020110201148781925 Batch 11/18, Loss: 0.0003243126266170293 Epoch 1012/1500

Batch 1/18, Loss: 0.00032664681202732027 Batch 11/18, Loss: 0.00013674642832484096 Epoch 1013/1500

Batch 1/18, Loss: 0.00017054456111509353 Batch 11/18, Loss: 0.00019797400454990566 Epoch 1014/1500

Batch 1/18, Loss: 0.0002558883570600301 Batch 11/18, Loss: 0.0002754644665401429 Epoch 1015/1500

Batch 1/18, Loss: 0.00017914654745254666 Batch 11/18, Loss: 0.0003945277421735227 Epoch 1016/1500

Batch 1/18, Loss: 0.0011033423943445086 Batch 11/18, Loss: 0.00016307794430758804 Epoch 1017/1500

Batch 1/18, Loss: 0.0005461653345264494 Batch 11/18, Loss: 0.0003186596150044352 Epoch 1018/1500

Batch 11/18, Loss: 0.000176030007423833

Epoch 1019/1500

Batch 1/18, Loss: 0.00017552744247950613

Batch 11/18, Loss: 0.00016169939772225916

Epoch 1020/1500

Batch 1/18, Loss: 0.0004283392336219549

Batch 11/18, Loss: 0.001051089959219098

Epoch 1021/1500

Batch 1/18, Loss: 0.0001528913708170876

Batch 11/18, Loss: 0.0002879947714973241

Epoch 1022/1500

Batch 1/18, Loss: 0.00022556136536877602

Batch 11/18, Loss: 0.0010168531443923712

Epoch 1023/1500

Batch 1/18, Loss: 0.0002292513381689787

Batch 11/18, Loss: 0.00051841139793396

Epoch 1024/1500

Batch 1/18, Loss: 0.0006583323120139539

Batch 11/18, Loss: 0.00020896561909466982

Epoch 1025/1500

Batch 1/18, Loss: 0.0002136932744178921

Batch 11/18, Loss: 0.00018468499183654785

Epoch 1026/1500

Batch 1/18, Loss: 0.00030054859234951437

Batch 11/18, Loss: 0.00023075658828020096

Epoch 1027/1500

Batch 1/18, Loss: 0.00018077231652569026

Batch 11/18, Loss: 0.0005957811372354627

Epoch 1028/1500

Batch 1/18, Loss: 0.00032693298999220133

Batch 11/18, Loss: 0.00018699864449445158

Epoch 1029/1500

Batch 1/18, Loss: 0.00023002506350167096

Batch 11/18, Loss: 0.0002811937010847032

Epoch 1030/1500

Batch 1/18, Loss: 0.00014424268738366663

Batch 11/18, Loss: 0.0003260901430621743

Epoch 1031/1500

Batch 1/18, Loss: 0.00019192087347619236

Batch 11/18, Loss: 0.0003033420362044126

Epoch 1032/1500

Batch 1/18, Loss: 0.00018068731878884137

Batch 11/18, Loss: 0.00022070381965022534

Epoch 1033/1500

Batch 1/18, Loss: 0.0003795942757278681

Batch 11/18, Loss: 0.00024371931795030832

Epoch 1034/1500

Batch 11/18, Loss: 0.00015753554180264473

Epoch 1035/1500

Batch 1/18, Loss: 0.0001417751918779686

Batch 11/18, Loss: 0.0001541240344522521

Epoch 1036/1500

Batch 1/18, Loss: 0.00022488710237666965

Batch 11/18, Loss: 0.00018574194109532982

Epoch 1037/1500

Batch 1/18, Loss: 0.00022997874475549906

Batch 11/18, Loss: 0.00025914330035448074

Epoch 1038/1500

Batch 1/18, Loss: 0.0006395186064764857

Batch 11/18, Loss: 0.0004523822572082281

Epoch 1039/1500

Batch 1/18, Loss: 0.0010317444102838635

Batch 11/18, Loss: 0.0004864496295340359

Epoch 1040/1500

Batch 1/18, Loss: 0.00023870059521868825

Batch 11/18, Loss: 0.00045046559534966946

Epoch 1041/1500

Batch 1/18, Loss: 0.00020468510047066957

Batch 11/18, Loss: 0.000129921521875076

Epoch 1042/1500

Batch 1/18, Loss: 0.00024911819491535425

Batch 11/18, Loss: 0.0012226557591930032

Epoch 1043/1500

Batch 1/18, Loss: 0.00016038480680435896

Batch 11/18, Loss: 0.00017362857761327177

Epoch 1044/1500

Batch 1/18, Loss: 0.0002813375322148204

Batch 11/18, Loss: 0.00014689331874251366

Epoch 1045/1500

Batch 1/18, Loss: 0.0002214761625509709

Batch 11/18, Loss: 0.00012014272942906246

Epoch 1046/1500

Batch 1/18, Loss: 0.00027156597934663296

Batch 11/18, Loss: 0.0001941265509231016

Epoch 1047/1500

Batch 1/18, Loss: 0.0002627843932714313

Batch 11/18, Loss: 0.0001552784233354032

Epoch 1048/1500

Batch 1/18, Loss: 0.0005334556917659938

Batch 11/18, Loss: 0.00015769494348205626

Epoch 1049/1500

Batch 1/18, Loss: 0.00016862567281350493

Batch 11/18, Loss: 0.0001754143595462665

Epoch 1050/1500

Batch 1/18, Loss: 0.00020014547044411302 Batch 11/18, Loss: 0.00024380975810345262

Epoch 1051/1500

Batch 1/18, Loss: 0.00019114831229671836 Batch 11/18, Loss: 0.0004016607999801636 After epoch 1050, loss=0.00023092341143637896

Epoch 1052/1500

Batch 1/18, Loss: 0.00021220358030404896 Batch 11/18, Loss: 0.0005529970512725413 Epoch 1053/1500

Batch 1/18, Loss: 0.0002165660698665306 Batch 11/18, Loss: 0.0001744735345710069 Epoch 1054/1500

Batch 1/18, Loss: 0.00015608796093147248 Batch 11/18, Loss: 9.49126624618657e-05 Epoch 1055/1500

Batch 1/18, Loss: 0.00028690259205177426
Batch 11/18, Loss: 0.00024751704768277705
Epoch 1056/1500

Batch 1/18, Loss: 0.00016262219287455082 Batch 11/18, Loss: 0.0002651683462318033 Epoch 1057/1500

Batch 1/18, Loss: 0.00014315378211904317 Batch 11/18, Loss: 0.0002486561133991927 Epoch 1058/1500

Batch 1/18, Loss: 0.00017746110097505152 Batch 11/18, Loss: 0.00018817564705386758 Epoch 1059/1500

Batch 1/18, Loss: 0.0002473514177836478 Batch 11/18, Loss: 0.00013532811135519296 Epoch 1060/1500

Batch 1/18, Loss: 0.0002699863398447633 Batch 11/18, Loss: 0.00022790726507082582 Epoch 1061/1500

Batch 1/18, Loss: 0.00014715456927660853 Batch 11/18, Loss: 0.0003478672297205776 Epoch 1062/1500

Batch 1/18, Loss: 0.0003123107017017901 Batch 11/18, Loss: 0.00016695488011464477 Epoch 1063/1500

Batch 1/18, Loss: 0.00022216641809791327 Batch 11/18, Loss: 0.0002369171561440453 Epoch 1064/1500

Batch 1/18, Loss: 0.00028162531089037657 Batch 11/18, Loss: 0.00016033442807383835 Epoch 1065/1500

Batch 1/18, Loss: 0.0002460976247675717 Batch 11/18, Loss: 0.00019758376583922654 Epoch 1066/1500

Batch 1/18, Loss: 0.0010649472242221236

Batch 11/18, Loss: 0.00019485893426463008

Epoch 1067/1500

Batch 1/18, Loss: 0.0001478175981901586

Batch 11/18, Loss: 0.0002228652301710099

Epoch 1068/1500

Batch 1/18, Loss: 0.00036239487235434353

Batch 11/18, Loss: 0.00018395864753983915

Epoch 1069/1500

Batch 1/18, Loss: 0.0002810480073094368

Batch 11/18, Loss: 0.00026019502547569573

Epoch 1070/1500

Batch 1/18, Loss: 0.00018583879864308983

Batch 11/18, Loss: 0.00020954720093868673

Epoch 1071/1500

Batch 1/18, Loss: 0.0001685499883024022

Batch 11/18, Loss: 0.0002453201450407505

Epoch 1072/1500

Batch 1/18, Loss: 0.00010428031237097457

Batch 11/18, Loss: 0.00020344441873021424

Epoch 1073/1500

Batch 1/18, Loss: 0.00017801958892960101

Batch 11/18, Loss: 0.0011518721003085375

Epoch 1074/1500

Batch 1/18, Loss: 0.0001769051159499213

Batch 11/18, Loss: 0.00029500643722712994

Epoch 1075/1500

Batch 1/18, Loss: 0.00042978470446541905

Batch 11/18, Loss: 0.00022343630553223193

Epoch 1076/1500

Batch 1/18, Loss: 0.0001767197099979967

Batch 11/18, Loss: 0.00016298811533488333

Epoch 1077/1500

Batch 1/18, Loss: 0.00020437042985577136

Batch 11/18, Loss: 0.0006052254466339946

Epoch 1078/1500

Batch 1/18, Loss: 0.00031984408269636333

Batch 11/18, Loss: 0.0001907033147290349

Epoch 1079/1500

Batch 1/18, Loss: 0.00018922255549114197

Batch 11/18, Loss: 0.0001936203334480524

Epoch 1080/1500

Batch 1/18, Loss: 0.00020009887521155179

Batch 11/18, Loss: 0.0002076647651847452

Epoch 1081/1500

Batch 1/18, Loss: 0.00015617295866832137

Epoch 1082/1500

Batch 1/18, Loss: 0.00010995475167874247 Batch 11/18, Loss: 0.001013310975395143

Epoch 1083/1500

Batch 1/18, Loss: 0.0003207215340808034 Batch 11/18, Loss: 0.00022684487339574844

Epoch 1084/1500

Batch 1/18, Loss: 0.0003576048475224525
Batch 11/18, Loss: 0.000577012135181576

Epoch 1085/1500

Batch 1/18, Loss: 0.00019076556782238185 Batch 11/18, Loss: 0.0002250230754725635 Epoch 1086/1500

Batch 1/18, Loss: 8.853984763845801e-05 Batch 11/18, Loss: 0.0001793422270566225 Epoch 1087/1500

Batch 1/18, Loss: 0.0002593881217762828 Batch 11/18, Loss: 0.000131976354168728 Epoch 1088/1500

Batch 1/18, Loss: 0.00041190217598341405 Batch 11/18, Loss: 0.00016783812316134572 Epoch 1089/1500

Batch 1/18, Loss: 0.00018583718338049948 Batch 11/18, Loss: 0.00038195098750293255 Epoch 1090/1500

Batch 1/18, Loss: 0.00036953826202079654 Batch 11/18, Loss: 0.0005494950455613434 Epoch 1091/1500

Batch 1/18, Loss: 0.00017213371756952256 Batch 11/18, Loss: 9.757620136952028e-05 Epoch 1092/1500

Batch 1/18, Loss: 0.00027805863646790385 Batch 11/18, Loss: 0.00017485269927419722 Epoch 1093/1500

Batch 1/18, Loss: 0.00022621038078796118 Batch 11/18, Loss: 0.00017068856686819345 Epoch 1094/1500

Batch 1/18, Loss: 0.0002928570902440697 Batch 11/18, Loss: 0.0006140829063951969 Epoch 1095/1500

Batch 1/18, Loss: 0.00032680522417649627 Batch 11/18, Loss: 0.0002486271841917187 Epoch 1096/1500

Batch 1/18, Loss: 0.00041439803317189217 Batch 11/18, Loss: 0.0001650111807975918 Epoch 1097/1500

Batch 1/18, Loss: 0.0002021725376835093 Batch 11/18, Loss: 0.00019707840692717582 Epoch 1098/1500

Batch 1/18, Loss: 0.0011378834024071693 Batch 11/18, Loss: 0.0002471523475833237

Epoch 1099/1500

Batch 1/18, Loss: 0.0003488178481347859 Batch 11/18, Loss: 0.00020215414406266063

Epoch 1100/1500

Batch 1/18, Loss: 0.0001845141960075125 Batch 11/18, Loss: 0.0005175267579033971 Epoch 1101/1500

Batch 1/18, Loss: 0.0005610027001239359 Batch 11/18, Loss: 0.0002679136232472956 After epoch 1100, loss=0.00017196510452777147 Epoch 1102/1500

Batch 1/18, Loss: 0.00022731402714271098 Batch 11/18, Loss: 0.0003264347615186125 Epoch 1103/1500

Batch 1/18, Loss: 0.0009667786653153598 Batch 11/18, Loss: 0.00022210765746422112 Epoch 1104/1500

Batch 1/18, Loss: 0.00015518293366767466
Batch 11/18, Loss: 0.00010108276910614222
Epoch 1105/1500

Batch 1/18, Loss: 0.00010604823910398409
Batch 11/18, Loss: 0.00017913735064212233

Epoch 1106/1500

Batch 1/18, Loss: 0.0001978149521164596 Batch 11/18, Loss: 0.00017010046576615423 Epoch 1107/1500

Batch 1/18, Loss: 0.00016487861284986138 Batch 11/18, Loss: 0.00018465948232915252 Epoch 1108/1500

Batch 1/18, Loss: 0.000267951691057533
Batch 11/18, Loss: 0.00018536689458414912
Epoch 1109/1500

Batch 1/18, Loss: 0.00027757114730775356 Batch 11/18, Loss: 0.00034113635774701834 Epoch 1110/1500

Batch 1/18, Loss: 0.00014887108409311622 Batch 11/18, Loss: 0.00015093301772139966 Epoch 1111/1500

Batch 1/18, Loss: 0.0001622391282580793 Batch 11/18, Loss: 0.00030772050376981497 Epoch 1112/1500

Batch 1/18, Loss: 0.00015277575585059822 Batch 11/18, Loss: 0.0002981793077196926 Epoch 1113/1500

Epoch 1114/1500

Batch 1/18, Loss: 0.0002115484094247222 Batch 11/18, Loss: 0.00024800069513730705 Epoch 1115/1500

Batch 1/18, Loss: 0.0010031190467998385 Batch 11/18, Loss: 0.00018915570399258286 Epoch 1116/1500

Batch 1/18, Loss: 0.0002496361266821623 Batch 11/18, Loss: 0.00021962237951811403 Epoch 1117/1500

Batch 1/18, Loss: 0.00020385818788781762 Batch 11/18, Loss: 0.0002328763366676867 Epoch 1118/1500

Batch 1/18, Loss: 0.00025151416775770485 Batch 11/18, Loss: 0.00016816455172374845 Epoch 1119/1500

Batch 1/18, Loss: 0.00017333401774521917 Batch 11/18, Loss: 0.00016867357771843672 Epoch 1120/1500

Batch 1/18, Loss: 0.00019514697487466037 Batch 11/18, Loss: 0.00023594460799358785 Epoch 1121/1500

Batch 1/18, Loss: 0.0001102673340938054 Batch 11/18, Loss: 0.00027644014335237443 Epoch 1122/1500

Batch 1/18, Loss: 0.00010393813136033714 Batch 11/18, Loss: 0.00022622103278990835 Epoch 1123/1500

Batch 1/18, Loss: 0.00018819714023265988 Batch 11/18, Loss: 0.0010239408584311604 Epoch 1124/1500

Batch 1/18, Loss: 0.0003836718969978392 Batch 11/18, Loss: 0.0006567143718712032 Epoch 1125/1500

Batch 1/18, Loss: 0.0002349468704778701 Batch 11/18, Loss: 0.00017330635455437005 Epoch 1126/1500

Batch 1/18, Loss: 0.0001770631060935557 Batch 11/18, Loss: 9.744286944624037e-05 Epoch 1127/1500

Batch 1/18, Loss: 0.00018711929442360997 Batch 11/18, Loss: 0.00016896385932341218 Epoch 1128/1500

Batch 1/18, Loss: 0.00035104615380987525 Batch 11/18, Loss: 0.0005126865580677986 Epoch 1129/1500

Batch 11/18, Loss: 0.00038229304482229054 Epoch 1130/1500

Batch 1/18, Loss: 0.00022532315051648766
Batch 11/18, Loss: 0.00034889893140643835
Epoch 1131/1500

Batch 1/18, Loss: 0.0006604550871998072 Batch 11/18, Loss: 0.00013446407683659345 Epoch 1132/1500

Batch 1/18, Loss: 0.0002544680901337415 Batch 11/18, Loss: 0.00010933592420769855 Epoch 1133/1500

Batch 1/18, Loss: 0.0001701817091088742 Batch 11/18, Loss: 0.00020613110973499715 Epoch 1134/1500

Batch 1/18, Loss: 0.0001239666889887303 Batch 11/18, Loss: 0.00021221824863459915 Epoch 1135/1500

Batch 1/18, Loss: 0.00016933056758716702 Batch 11/18, Loss: 0.0005068028694950044 Epoch 1136/1500

Batch 1/18, Loss: 0.0001566606224514544
Batch 11/18, Loss: 0.00020117987878620625
Epoch 1137/1500

Batch 1/18, Loss: 0.00020258335280232131 Batch 11/18, Loss: 0.00013342982856556773 Epoch 1138/1500

Batch 1/18, Loss: 0.00019381713354960084 Batch 11/18, Loss: 0.00018266707775183022 Epoch 1139/1500

Batch 1/18, Loss: 0.00017498912347946316 Batch 11/18, Loss: 0.00015850228373892605 Epoch 1140/1500

Batch 1/18, Loss: 0.00018696949700824916 Batch 11/18, Loss: 0.00021950564405415207 Epoch 1141/1500

Batch 1/18, Loss: 0.00021998831653036177 Batch 11/18, Loss: 0.00015370459004770964 Epoch 1142/1500

Batch 1/18, Loss: 0.0002559694112278521 Batch 11/18, Loss: 0.00024320643569808453 Epoch 1143/1500

Batch 1/18, Loss: 0.00019853151752613485 Batch 11/18, Loss: 0.00023406384570989758 Epoch 1144/1500

Batch 1/18, Loss: 0.0010200784308835864 Batch 11/18, Loss: 0.00024026300525292754 Epoch 1145/1500

Epoch 1146/1500

Batch 1/18, Loss: 0.00013604448758997023 Batch 11/18, Loss: 0.0002370182191953063 Epoch 1147/1500

Batch 1/18, Loss: 0.000275200029136613 Batch 11/18, Loss: 0.00011988937330897897 Epoch 1148/1500

Batch 1/18, Loss: 0.0002073326031677425 Batch 11/18, Loss: 0.00022058346075937152 Epoch 1149/1500

Batch 1/18, Loss: 0.00019781924493145198 Batch 11/18, Loss: 0.00016375961422454566 Epoch 1150/1500

Batch 1/18, Loss: 0.0002283188223373145 Batch 11/18, Loss: 0.00021450550411827862 Epoch 1151/1500

Batch 1/18, Loss: 0.00014597672270610929 Batch 11/18, Loss: 0.00029299009474925697 After epoch 1150, loss=0.00019462723867036402 Epoch 1152/1500

Batch 1/18, Loss: 0.0003035152330994606 Batch 11/18, Loss: 0.00019195422646589577 Epoch 1153/1500

Batch 1/18, Loss: 0.00010571273742243648 Batch 11/18, Loss: 0.00025570546858944 Epoch 1154/1500

Batch 1/18, Loss: 0.00025439474848099053 Batch 11/18, Loss: 0.0005319832707755268 Epoch 1155/1500

Batch 1/18, Loss: 0.00015108240768313408 Batch 11/18, Loss: 0.00016254445654340088 Epoch 1156/1500

Batch 1/18, Loss: 0.0003830223868135363 Batch 11/18, Loss: 0.0002504017611499876 Epoch 1157/1500

Batch 1/18, Loss: 0.00018738173821475357
Batch 11/18, Loss: 0.00015717692440375686

Epoch 1158/1500

Batch 1/18, Loss: 0.0002440492680761963
Batch 11/18, Loss: 0.00020188071357551962
Epoch 1159/1500

Batch 1/18, Loss: 0.00027702582883648574 Batch 11/18, Loss: 0.0002650572278071195 Epoch 1160/1500

Batch 1/18, Loss: 0.00028763822047039866 Batch 11/18, Loss: 0.00024701416259631515 Epoch 1161/1500

Batch 11/18, Loss: 0.00012727196735795587

Epoch 1162/1500

Batch 1/18, Loss: 0.00021276647748891264

Batch 11/18, Loss: 0.00016357221466023475

Epoch 1163/1500

Batch 1/18, Loss: 0.0001527797430753708

Batch 11/18, Loss: 0.0001541909878142178

Epoch 1164/1500

Batch 1/18, Loss: 0.00017945069703273475

Batch 11/18, Loss: 0.00039481394924223423

Epoch 1165/1500

Batch 1/18, Loss: 0.00027076550759375095

Batch 11/18, Loss: 0.00011594289389904588

Epoch 1166/1500

Batch 1/18, Loss: 0.00021938388817943633

Batch 11/18, Loss: 0.0001897510956041515

Epoch 1167/1500

Batch 1/18, Loss: 0.0004994848859496415

Batch 11/18, Loss: 0.00013846237561665475

Epoch 1168/1500

Batch 1/18, Loss: 0.00026840573991648853

Batch 11/18, Loss: 0.001309460960328579

Epoch 1169/1500

Batch 1/18, Loss: 0.00026340378099121153

Batch 11/18, Loss: 0.0004315648984629661

Epoch 1170/1500

Batch 1/18, Loss: 0.0002536572574172169

Batch 11/18, Loss: 0.00023340602638199925

Epoch 1171/1500

Batch 1/18, Loss: 0.00018214060401078314

Batch 11/18, Loss: 0.00014793479931540787

Epoch 1172/1500

Batch 1/18, Loss: 0.00017277916776947677

Batch 11/18, Loss: 0.00011361845827195793

Epoch 1173/1500

Batch 1/18, Loss: 0.00037172314478084445

Batch 11/18, Loss: 0.000159417322720401

Epoch 1174/1500

Batch 1/18, Loss: 0.0002272443671245128

Batch 11/18, Loss: 0.00025792454835027456

Epoch 1175/1500

Batch 1/18, Loss: 0.00028847242356278

Batch 11/18, Loss: 0.0006282121757976711

Epoch 1176/1500

Batch 1/18, Loss: 0.0005138562992215157

Batch 11/18, Loss: 0.0002855202183127403

Epoch 1177/1500

Batch 1/18, Loss: 0.00016741947911214083 Batch 11/18, Loss: 0.0002133203379344195

Epoch 1178/1500

Batch 1/18, Loss: 0.0001445405650883913 Batch 11/18, Loss: 0.0006114568677730858

Epoch 1179/1500

Batch 1/18, Loss: 0.0002711995621211827 Batch 11/18, Loss: 0.0002184649056289345

Epoch 1180/1500

Batch 1/18, Loss: 0.00025702762650325894 Batch 11/18, Loss: 0.00020002374367322773 Epoch 1181/1500

Batch 1/18, Loss: 0.00021217700850684196 Batch 11/18, Loss: 0.00020706352370325476 Epoch 1182/1500

Batch 1/18, Loss: 0.001129184034653008 Batch 11/18, Loss: 0.0006025995826348662 Epoch 1183/1500

Batch 1/18, Loss: 0.0002673638518899679
Batch 11/18, Loss: 0.00020230239897500724
Epoch 1184/1500

Batch 1/18, Loss: 0.00044143630657345057 Batch 11/18, Loss: 0.0002561042783781886 Epoch 1185/1500

Batch 1/18, Loss: 0.0004699058481492102 Batch 11/18, Loss: 0.00019998630159534514 Epoch 1186/1500

Batch 1/18, Loss: 0.00016629010497126728 Batch 11/18, Loss: 0.001019857358187437 Epoch 1187/1500

Batch 1/18, Loss: 0.00019013468408957124 Batch 11/18, Loss: 0.00020053706248290837 Epoch 1188/1500

Batch 1/18, Loss: 0.0001959640794666484 Batch 11/18, Loss: 0.00026981657720170915 Epoch 1189/1500

Batch 1/18, Loss: 0.0003125497023575008 Batch 11/18, Loss: 0.00022630981402471662 Epoch 1190/1500

Batch 1/18, Loss: 0.0002687634259928018 Batch 11/18, Loss: 0.0001323309406870976 Epoch 1191/1500

Batch 1/18, Loss: 0.0006090382812544703 Batch 11/18, Loss: 0.00026851316215470433 Epoch 1192/1500

Batch 1/18, Loss: 0.00019475238514132798 Batch 11/18, Loss: 0.000352167000528425 Epoch 1193/1500 Batch 1/18, Loss: 0.00038483712705783546 Batch 11/18, Loss: 0.00018699221254792064

Epoch 1194/1500

Batch 1/18, Loss: 0.00042004886199720204 Batch 11/18, Loss: 0.0010428421664983034

Epoch 1195/1500

Batch 1/18, Loss: 0.00042808958096429706 Batch 11/18, Loss: 0.0001504050160292536 Epoch 1196/1500

Batch 1/18, Loss: 0.0001254527160199359 Batch 11/18, Loss: 0.00020846756524406374 Epoch 1197/1500

Batch 1/18, Loss: 0.0002194069093093276 Batch 11/18, Loss: 0.00018148819799534976 Epoch 1198/1500

Batch 1/18, Loss: 0.0001212645584018901 Batch 11/18, Loss: 0.00046105135697871447 Epoch 1199/1500

Batch 1/18, Loss: 0.00014452924369834363 Batch 11/18, Loss: 0.00016429033712483943 Epoch 1200/1500

Batch 1/18, Loss: 0.00015321699902415276
Batch 11/18, Loss: 0.0002467842714395374
Epoch 1201/1500

Batch 1/18, Loss: 0.00019849410455208272 Batch 11/18, Loss: 0.00020667021453846246 After epoch 1200, loss=8.337031613336876e-05 Epoch 1202/1500

Batch 1/18, Loss: 0.00025088575785048306 Batch 11/18, Loss: 0.00012617080938071012 Epoch 1203/1500

Batch 1/18, Loss: 0.00021333676704671234 Batch 11/18, Loss: 0.00018257187912240624 Epoch 1204/1500

Batch 1/18, Loss: 0.0001926408294821158
Batch 11/18, Loss: 0.00014904614363331348
Epoch 1205/1500

Batch 1/18, Loss: 0.00045322722871787846 Batch 11/18, Loss: 0.00015942232857923955 Epoch 1206/1500

Batch 1/18, Loss: 0.00031929585384204984 Batch 11/18, Loss: 0.001009231200441718 Epoch 1207/1500

Batch 1/18, Loss: 0.00018254821770824492 Batch 11/18, Loss: 0.0003999861655756831 Epoch 1208/1500

Batch 1/18, Loss: 0.00023920947569422424 Batch 11/18, Loss: 0.00018774261116050184 Epoch 1209/1500

Batch 1/18, Loss: 0.00012509713997133076 Batch 11/18, Loss: 0.00014598536654375494

Epoch 1210/1500

Batch 1/18, Loss: 0.0001654399384278804 Batch 11/18, Loss: 0.0009329752065241337

Epoch 1211/1500

Batch 1/18, Loss: 0.00016538093041162938
Batch 11/18, Loss: 0.0005273482529446483

Epoch 1212/1500

Batch 1/18, Loss: 0.00034051353577524424 Batch 11/18, Loss: 0.0009647679980844259 Epoch 1213/1500

Batch 1/18, Loss: 0.00018090644152835011 Batch 11/18, Loss: 0.00024536915589123964

Epoch 1214/1500

Batch 1/18, Loss: 0.00054289645049721 Batch 11/18, Loss: 0.0009285798878408968 Epoch 1215/1500

Batch 1/18, Loss: 0.00018457032274454832 Batch 11/18, Loss: 0.00017983184079639614 Epoch 1216/1500

Batch 1/18, Loss: 0.00021857998217456043 Batch 11/18, Loss: 0.0009801271371543407 Epoch 1217/1500

Batch 1/18, Loss: 0.00013559963554143906 Batch 11/18, Loss: 0.00014786591054871678 Epoch 1218/1500

Batch 1/18, Loss: 0.00019461510237306356 Batch 11/18, Loss: 0.00012741563841700554 Epoch 1219/1500

Batch 1/18, Loss: 0.0002124373713741079 Batch 11/18, Loss: 0.0001955171610461548 Epoch 1220/1500

Batch 1/18, Loss: 0.00014293185085989535 Batch 11/18, Loss: 0.00016234992654062808 Epoch 1221/1500

Batch 1/18, Loss: 0.00018109405937138945 Batch 11/18, Loss: 0.00024432409554719925 Epoch 1222/1500

Batch 1/18, Loss: 0.0001871524436865002 Batch 11/18, Loss: 0.00040019486914388835 Epoch 1223/1500

Batch 1/18, Loss: 0.0001585739228175953 Batch 11/18, Loss: 0.0002225739590357989 Epoch 1224/1500

Batch 1/18, Loss: 0.00028620593366213143 Batch 11/18, Loss: 0.0003060341696254909 Epoch 1225/1500

Batch 1/18, Loss: 0.0001851526612881571
Batch 11/18, Loss: 0.00021432660287246108

Epoch 1226/1500

Batch 1/18, Loss: 0.0001059723217622377 Batch 11/18, Loss: 0.00026495009660720825

Epoch 1227/1500

Batch 1/18, Loss: 0.0002989459899254143
Batch 11/18, Loss: 0.0009002351434901357

Epoch 1228/1500

Batch 1/18, Loss: 0.0001462325599277392 Batch 11/18, Loss: 0.0003155393060296774 Epoch 1229/1500

Batch 1/18, Loss: 0.0008991328068077564
Batch 11/18, Loss: 0.00021012952493038028
Epoch 1230/1500

Batch 1/18, Loss: 0.00016346917254850268
Batch 11/18, Loss: 0.00022854734561406076
Epoch 1231/1500

Batch 1/18, Loss: 0.00019894125580321997 Batch 11/18, Loss: 0.00032383925281465054 Epoch 1232/1500

Batch 1/18, Loss: 0.00021739961812272668
Batch 11/18, Loss: 0.00019885043730027974
Epoch 1233/1500

Batch 1/18, Loss: 0.001008197432383895 Batch 11/18, Loss: 0.00019274852820672095 Epoch 1234/1500

Batch 1/18, Loss: 0.00021954152907710522 Batch 11/18, Loss: 0.0002019009116338566 Epoch 1235/1500

Batch 1/18, Loss: 0.00024579899036325514 Batch 11/18, Loss: 0.00021392323833424598 Epoch 1236/1500

Batch 1/18, Loss: 0.00017984201258514076 Batch 11/18, Loss: 0.0001589255261933431 Epoch 1237/1500

Batch 1/18, Loss: 0.00017134923837147653 Batch 11/18, Loss: 0.00031276990193873644 Epoch 1238/1500

Batch 1/18, Loss: 0.00020004980615340173 Batch 11/18, Loss: 0.00018106354400515556 Epoch 1239/1500

Batch 1/18, Loss: 0.0002973504888359457 Batch 11/18, Loss: 0.00017125815793406218 Epoch 1240/1500

Batch 1/18, Loss: 0.000255538965575397 Batch 11/18, Loss: 0.0002855706843547523 Epoch 1241/1500

Batch 1/18, Loss: 0.0001855084701674059 Batch 11/18, Loss: 0.00019266885647084564

Epoch 1242/1500

Batch 1/18, Loss: 0.00012312029139138758 Batch 11/18, Loss: 0.00017956622468773276

Epoch 1243/1500

Batch 1/18, Loss: 0.00014512758934870362
Batch 11/18, Loss: 0.00022236717632040381

Epoch 1244/1500

Batch 1/18, Loss: 0.0002330216084374115 Batch 11/18, Loss: 0.0009764013811945915 Epoch 1245/1500

Batch 1/18, Loss: 0.0003306951839476824 Batch 11/18, Loss: 0.0009144008508883417 Epoch 1246/1500

Batch 1/18, Loss: 0.00017335536540485919
Batch 11/18, Loss: 0.00014127632312010974

Epoch 1247/1500

Batch 1/18, Loss: 0.0001982814574148506 Batch 11/18, Loss: 0.00010488967382116243 Epoch 1248/1500

Batch 1/18, Loss: 0.0003020645526703447 Batch 11/18, Loss: 0.00014901012764312327 Epoch 1249/1500

Batch 1/18, Loss: 0.0006153347785584629 Batch 11/18, Loss: 0.0010003347415477037 Epoch 1250/1500

Batch 1/18, Loss: 0.00019269998301751912 Batch 11/18, Loss: 0.00013590266462415457 Epoch 1251/1500

Batch 1/18, Loss: 0.0001220948324771598 Batch 11/18, Loss: 0.00020770540868397802 After epoch 1250, loss=0.0002305925008840859 Epoch 1252/1500

Batch 1/18, Loss: 0.0002017666702158749
Batch 11/18, Loss: 0.0001640222908463329
Epoch 1253/1500

Batch 1/18, Loss: 0.00016257310926448554 Batch 11/18, Loss: 0.00024406456213910133 Epoch 1254/1500

Batch 1/18, Loss: 9.577568562235683e-05
Batch 11/18, Loss: 0.00027579613379202783
Epoch 1255/1500

Batch 1/18, Loss: 0.0005143255693838 Batch 11/18, Loss: 0.00025363388704136014 Epoch 1256/1500

Epoch 1257/1500

Batch 1/18, Loss: 0.0006311510223895311
Batch 11/18, Loss: 0.0002380181394983083
Epoch 1258/1500

Batch 1/18, Loss: 0.00019010760297533125 Batch 11/18, Loss: 0.00013158952060621232 Epoch 1259/1500

Batch 1/18, Loss: 0.00014094988000579178 Batch 11/18, Loss: 0.000934225448872894 Epoch 1260/1500

Batch 1/18, Loss: 0.00021893838129471987 Batch 11/18, Loss: 0.0002880171814467758 Epoch 1261/1500

Batch 1/18, Loss: 0.0002180573355872184 Batch 11/18, Loss: 0.00013555804616771638 Epoch 1262/1500

Batch 1/18, Loss: 0.0001601964613655582 Batch 11/18, Loss: 0.0005318883340805769 Epoch 1263/1500

Batch 1/18, Loss: 0.000159557064762339
Batch 11/18, Loss: 0.0001754637050908059

Epoch 1264/1500

Batch 1/18, Loss: 0.00013637221127282828 Batch 11/18, Loss: 0.00020651319937314838 Epoch 1265/1500

Batch 1/18, Loss: 0.00018299797375220805 Batch 11/18, Loss: 0.00019132472516503185 Epoch 1266/1500

Batch 1/18, Loss: 0.00016276221140287817 Batch 11/18, Loss: 0.00020714200218208134 Epoch 1267/1500

Batch 1/18, Loss: 0.00019949357374571264 Batch 11/18, Loss: 0.00019752580556087196 Epoch 1268/1500

Batch 1/18, Loss: 0.00043486879440024495 Batch 11/18, Loss: 0.0005729738040827215 Epoch 1269/1500

Batch 1/18, Loss: 0.001222470193170011 Batch 11/18, Loss: 0.0002537855471018702 Epoch 1270/1500

Batch 1/18, Loss: 0.00013214391947258264 Batch 11/18, Loss: 0.00014056464715395123 Epoch 1271/1500

Batch 1/18, Loss: 0.00018986348004546016 Batch 11/18, Loss: 0.00018166657537221909 Epoch 1272/1500

Epoch 1273/1500

Batch 1/18, Loss: 0.00016245753795374185

Epoch 1274/1500

Batch 1/18, Loss: 0.00012105744099244475 Batch 11/18, Loss: 0.00017387628031428903 Epoch 1275/1500

Batch 11/18, Loss: 0.0003770690527744591

Batch 1/18, Loss: 0.00012495963892433792 Batch 11/18, Loss: 0.00019375933334231377 Epoch 1276/1500

Batch 1/18, Loss: 0.00021921911684330553 Batch 11/18, Loss: 0.0005395025364123285 Epoch 1277/1500

Batch 1/18, Loss: 0.00033139693550765514 Batch 11/18, Loss: 0.00025716228992678225 Epoch 1278/1500

Batch 1/18, Loss: 0.00022716647072229534
Batch 11/18, Loss: 0.0003935214481316507
Epoch 1279/1500

Batch 1/18, Loss: 0.0001590195024618879 Batch 11/18, Loss: 0.00022511380666401237 Epoch 1280/1500

Batch 1/18, Loss: 0.00021285799448378384 Batch 11/18, Loss: 0.00017795010353438556 Epoch 1281/1500

Batch 1/18, Loss: 0.00013234646758064628 Batch 11/18, Loss: 0.000220341986278072 Epoch 1282/1500

Batch 1/18, Loss: 0.00016954040620476007 Batch 11/18, Loss: 0.0010001915507018566 Epoch 1283/1500

Batch 1/18, Loss: 0.00012110544776078314 Batch 11/18, Loss: 0.00018384221766609699 Epoch 1284/1500

Batch 1/18, Loss: 0.0001415839942637831 Batch 11/18, Loss: 0.0003535544383339584 Epoch 1285/1500

Batch 1/18, Loss: 0.0003924492630176246 Batch 11/18, Loss: 0.00014917811495251954 Epoch 1286/1500

Batch 1/18, Loss: 0.000951761263422668
Batch 11/18, Loss: 0.00013974984176456928
Epoch 1287/1500

Batch 1/18, Loss: 0.00019171358144376427 Batch 11/18, Loss: 0.00027679253253154457 Epoch 1288/1500

Epoch 1289/1500

Batch 1/18, Loss: 0.00023032301396597177
Batch 11/18, Loss: 0.00014503243437502533
Epoch 1290/1500

Batch 1/18, Loss: 0.0003385018208064139 Batch 11/18, Loss: 0.00017673637194093317 Epoch 1291/1500

Batch 1/18, Loss: 0.00022616797650698572 Batch 11/18, Loss: 0.0001580521056894213 Epoch 1292/1500

Batch 1/18, Loss: 0.00016614091873634607 Batch 11/18, Loss: 0.0001825080398702994 Epoch 1293/1500

Batch 1/18, Loss: 0.0002177468268200755 Batch 11/18, Loss: 0.00022022967459633946 Epoch 1294/1500

Batch 1/18, Loss: 0.00020995328668504953 Batch 11/18, Loss: 0.00011434640327934176 Epoch 1295/1500

Batch 1/18, Loss: 0.0002678032615222037 Batch 11/18, Loss: 0.0001276407710975036

Epoch 1296/1500

Batch 1/18, Loss: 0.00029516351060010493
Batch 11/18, Loss: 0.00022071156126912683

Epoch 1297/1500

Batch 1/18, Loss: 0.0003255701740272343
Batch 11/18, Loss: 0.00023583961592521518
Epoch 1298/1500

Batch 1/18, Loss: 0.0001655873202253133
Batch 11/18, Loss: 0.00018748488218989223
Epoch 1299/1500

Batch 1/18, Loss: 0.00017799317720346153 Batch 11/18, Loss: 0.0001877776230685413 Epoch 1300/1500

Batch 1/18, Loss: 0.0002236297877971083 Batch 11/18, Loss: 0.000357980839908123 Epoch 1301/1500

Batch 1/18, Loss: 0.0002871464821510017 Batch 11/18, Loss: 0.00019521411741152406 After epoch 1300, loss=0.00028400286100804806 Epoch 1302/1500

Batch 1/18, Loss: 0.00012829284241888672 Batch 11/18, Loss: 0.0003322525881230831 Epoch 1303/1500

Batch 1/18, Loss: 0.00020356975437607616 Batch 11/18, Loss: 0.00017153561930172145 Epoch 1304/1500

Batch 11/18, Loss: 0.00025696156080812216

Epoch 1305/1500

Batch 1/18, Loss: 0.00017528998432680964

Batch 11/18, Loss: 0.00047172378981485963

Epoch 1306/1500

Batch 1/18, Loss: 0.0003884922480210662

Batch 11/18, Loss: 0.00015161199553404003

Epoch 1307/1500

Batch 1/18, Loss: 0.00015200377674773335

Batch 11/18, Loss: 0.00020352532737888396

Epoch 1308/1500

Batch 1/18, Loss: 0.0002494728541933

Batch 11/18, Loss: 0.00020330736879259348

Epoch 1309/1500

Batch 1/18, Loss: 0.00016207392036449164

Batch 11/18, Loss: 0.00013440031034406275

Epoch 1310/1500

Batch 1/18, Loss: 0.0003884400939568877

Batch 11/18, Loss: 0.00010139050573343411

Epoch 1311/1500

Batch 1/18, Loss: 0.00019051526032853872

Batch 11/18, Loss: 0.0003623698721639812

Epoch 1312/1500

Batch 1/18, Loss: 0.0006355642690323293

Batch 11/18, Loss: 0.0009224789682775736

Epoch 1313/1500

Batch 1/18, Loss: 0.00019342546875122935

Batch 11/18, Loss: 0.0009440802969038486

Epoch 1314/1500

Batch 1/18, Loss: 0.00011131212522741407

Batch 11/18, Loss: 0.00025541314971633255

Epoch 1315/1500

Batch 1/18, Loss: 0.00023974159557837993

Batch 11/18, Loss: 0.0003038003924302757

Epoch 1316/1500

Batch 1/18, Loss: 0.0002598137070890516

Batch 11/18, Loss: 0.00021732176537625492

Epoch 1317/1500

Batch 1/18, Loss: 0.00029402386280708015

Batch 11/18, Loss: 0.00017935298092197627

Epoch 1318/1500

Batch 1/18, Loss: 0.0003266440180595964

Batch 11/18, Loss: 0.0001835125731304288

Epoch 1319/1500

Batch 1/18, Loss: 0.0001318091672146693

Batch 11/18, Loss: 0.0002679213066585362

Epoch 1320/1500

Batch 11/18, Loss: 0.00026724988128989935

Epoch 1321/1500

Batch 1/18, Loss: 0.00014549448678735644

Batch 11/18, Loss: 0.00026297540171071887

Epoch 1322/1500

Batch 1/18, Loss: 0.00017821141227614135

Batch 11/18, Loss: 0.0002398307842668146

Epoch 1323/1500

Batch 1/18, Loss: 0.0001393535640090704

Batch 11/18, Loss: 0.0001456152822356671

Epoch 1324/1500

Batch 1/18, Loss: 0.00020720390602946281

Batch 11/18, Loss: 0.000255159247899428

Epoch 1325/1500

Batch 1/18, Loss: 0.0003050347731914371

Batch 11/18, Loss: 0.0002623719337861985

Epoch 1326/1500

Batch 1/18, Loss: 0.0012377495877444744

Batch 11/18, Loss: 0.00014390969590749592

Epoch 1327/1500

Batch 1/18, Loss: 0.0001446081296307966

Batch 11/18, Loss: 0.000529440410900861

Epoch 1328/1500

Batch 1/18, Loss: 0.0002097741380566731

Batch 11/18, Loss: 0.00011224904301343486

Epoch 1329/1500

Batch 1/18, Loss: 0.0001191186165669933

Batch 11/18, Loss: 0.00028061697958037257

Epoch 1330/1500

Batch 1/18, Loss: 0.00017629227659199387

Batch 11/18, Loss: 0.0009263763204216957

Epoch 1331/1500

Batch 1/18, Loss: 0.00018365761206950992

Batch 11/18, Loss: 0.00012245579273439944

Epoch 1332/1500

Batch 1/18, Loss: 0.0002833539037965238

Batch 11/18, Loss: 0.0002699184697121382

Epoch 1333/1500

Batch 1/18, Loss: 0.00012663970119319856

Batch 11/18, Loss: 0.00022303350851871073

Epoch 1334/1500

Batch 1/18, Loss: 0.0001712786906864494

Batch 11/18, Loss: 0.00018605847435537726

Epoch 1335/1500

Batch 1/18, Loss: 0.0001493145973654464

Batch 11/18, Loss: 0.0001926767872646451

Epoch 1336/1500

Batch 11/18, Loss: 0.00017059074889402837

Epoch 1337/1500

Batch 1/18, Loss: 0.00022648775484412909

Batch 11/18, Loss: 0.00019016393343918025

Epoch 1338/1500

Batch 1/18, Loss: 0.00012172776769148186

Batch 11/18, Loss: 0.0002114968083333224

Epoch 1339/1500

Batch 1/18, Loss: 0.0002450624306220561

Batch 11/18, Loss: 0.00016821784083731472

Epoch 1340/1500

Batch 1/18, Loss: 0.00021092736278660595

Batch 11/18, Loss: 0.00024640889023430645

Epoch 1341/1500

Batch 1/18, Loss: 0.0002570172364357859

Batch 11/18, Loss: 0.00016585241246502846

Epoch 1342/1500

Batch 1/18, Loss: 0.0002973327354993671

Batch 11/18, Loss: 0.00019631945178844035

Epoch 1343/1500

Batch 1/18, Loss: 0.0004203102726023644

Batch 11/18, Loss: 0.0012534117558971047

Epoch 1344/1500

Batch 1/18, Loss: 0.00025591737357899547

Batch 11/18, Loss: 0.00043276301585137844

Epoch 1345/1500

Batch 1/18, Loss: 0.0003055818669963628

Batch 11/18, Loss: 0.0002046862500719726

Epoch 1346/1500

Batch 1/18, Loss: 0.0008955635130405426

Batch 11/18, Loss: 0.000215682084672153

Epoch 1347/1500

Batch 1/18, Loss: 0.00015768699813634157

Batch 11/18, Loss: 0.0005476043443195522

Epoch 1348/1500

Batch 1/18, Loss: 0.0001805764331948012

Batch 11/18, Loss: 0.00018980346794705838

Epoch 1349/1500

Batch 1/18, Loss: 0.00041306455386802554

Batch 11/18, Loss: 0.0002251383994007483

Epoch 1350/1500

Batch 1/18, Loss: 0.00017446905258111656

Batch 11/18, Loss: 0.00026598587282933295

Epoch 1351/1500

Batch 1/18, Loss: 0.000250086683081463

Batch 11/18, Loss: 0.00015319640806410462

After epoch 1350, loss=9.982843766920269e-05

Epoch 1352/1500

Batch 1/18, Loss: 0.00021436254610307515 Batch 11/18, Loss: 0.00018345146963838488

Epoch 1353/1500

Batch 1/18, Loss: 0.0008948019240051508 Batch 11/18, Loss: 0.00012583809439092875 Epoch 1354/1500

Batch 1/18, Loss: 0.0002496734377928078 Batch 11/18, Loss: 0.0009177852771244943

Epoch 1355/1500

Batch 1/18, Loss: 0.00032632704824209213 Batch 11/18, Loss: 0.00019019734463654459 Epoch 1356/1500

Batch 1/18, Loss: 0.0002255961881019175 Batch 11/18, Loss: 0.00043435883708298206 Epoch 1357/1500

Batch 1/18, Loss: 0.00018070073565468192 Batch 11/18, Loss: 0.0002220013557234779 Epoch 1358/1500

Batch 1/18, Loss: 0.0001878853072412312 Batch 11/18, Loss: 0.0009667111444287002 Epoch 1359/1500

Batch 1/18, Loss: 0.00017803965602070093 Batch 11/18, Loss: 0.0001415935403201729 Epoch 1360/1500

Batch 1/18, Loss: 0.0002227731456514448 Batch 11/18, Loss: 0.0001565148850204423 Epoch 1361/1500

Batch 1/18, Loss: 0.0005222501931712031 Batch 11/18, Loss: 0.0001915994507726282 Epoch 1362/1500

Batch 1/18, Loss: 0.0001740268198773265 Batch 11/18, Loss: 0.00019443467317614704 Epoch 1363/1500

Batch 1/18, Loss: 0.0003293853660579771
Batch 11/18, Loss: 0.00020093107013963163
Epoch 1364/1500

Batch 1/18, Loss: 0.0001885182864498347 Batch 11/18, Loss: 0.00014788866974413395 Epoch 1365/1500

Batch 1/18, Loss: 0.0001355049025733024 Batch 11/18, Loss: 0.0001711632066871971 Epoch 1366/1500

Batch 1/18, Loss: 0.00015186582459136844 Batch 11/18, Loss: 0.00025220023235306144 Epoch 1367/1500

Batch 1/18, Loss: 0.00018676728359423578 Batch 11/18, Loss: 0.00021433585789054632 Epoch 1368/1500

Batch 1/18, Loss: 0.000270225660642609

Batch 11/18, Loss: 0.00036161093157716095

Epoch 1369/1500

Batch 1/18, Loss: 0.00027976924320682883

Batch 11/18, Loss: 0.00023126642918214202

Epoch 1370/1500

Batch 1/18, Loss: 0.0003955214924644679

Batch 11/18, Loss: 0.0002643940388225019

Epoch 1371/1500

Batch 1/18, Loss: 0.0002609309449326247

Batch 11/18, Loss: 0.000257328589214012

Epoch 1372/1500

Batch 1/18, Loss: 0.0001737660786602646

Batch 11/18, Loss: 0.00015003840962890536

Epoch 1373/1500

Batch 1/18, Loss: 0.00023544946452602744

Batch 11/18, Loss: 0.00021693017333745956

Epoch 1374/1500

Batch 1/18, Loss: 0.0004781861207447946

Batch 11/18, Loss: 0.00017047731671482325

Epoch 1375/1500

Batch 1/18, Loss: 0.0002195839915657416

Batch 11/18, Loss: 0.00019811329548247159

Epoch 1376/1500

Batch 1/18, Loss: 0.0005318651674315333

Batch 11/18, Loss: 0.0008641118183732033

Epoch 1377/1500

Batch 1/18, Loss: 0.000522057933267206

Batch 11/18, Loss: 0.00018155538418795913

Epoch 1378/1500

Batch 1/18, Loss: 0.00017690134700387716

Batch 11/18, Loss: 0.0003659493522718549

Epoch 1379/1500

Batch 1/18, Loss: 0.00044774331036023796

Batch 11/18, Loss: 0.000204401119844988

Epoch 1380/1500

Batch 1/18, Loss: 0.00024594919523224235

Batch 11/18, Loss: 0.00015674278256483376

Epoch 1381/1500

Batch 1/18, Loss: 0.00034133816370740533

Batch 11/18, Loss: 0.00025897659361362457

Epoch 1382/1500

Batch 1/18, Loss: 0.00014336442109197378

Batch 11/18, Loss: 0.0003189720737282187

Epoch 1383/1500

Batch 1/18, Loss: 0.00018072302918881178

Epoch 1384/1500

Batch 1/18, Loss: 0.0006109679234214127 Batch 11/18, Loss: 0.00013883579231332988

Epoch 1385/1500

Batch 1/18, Loss: 0.00019915055599994957
Batch 11/18, Loss: 0.00021982374892104417

Epoch 1386/1500

Batch 1/18, Loss: 0.0003272168687544763
Batch 11/18, Loss: 0.00011942594574065879
Epoch 1387/1500

Batch 1/18, Loss: 0.00022991921287029982 Batch 11/18, Loss: 0.00017534020298626274 Epoch 1388/1500

Batch 1/18, Loss: 0.0005383007228374481 Batch 11/18, Loss: 0.00019318863633088768 Epoch 1389/1500

Batch 1/18, Loss: 0.00022704718867316842 Batch 11/18, Loss: 0.00023529314785264432 Epoch 1390/1500

Batch 1/18, Loss: 0.0002665050560608506 Batch 11/18, Loss: 0.00015183402865659446 Epoch 1391/1500

Batch 1/18, Loss: 0.0005958498222753406 Batch 11/18, Loss: 0.00031961221247911453 Epoch 1392/1500

Batch 1/18, Loss: 0.00010563297109911218 Batch 11/18, Loss: 0.00017709124949760735 Epoch 1393/1500

Batch 1/18, Loss: 0.0008453092304989696 Batch 11/18, Loss: 0.00017820649372879416 Epoch 1394/1500

Batch 1/18, Loss: 0.00016793615941423923 Batch 11/18, Loss: 0.00014237745199352503 Epoch 1395/1500

Batch 1/18, Loss: 0.00019458944734651595 Batch 11/18, Loss: 0.00023570923076476902 Epoch 1396/1500

Batch 1/18, Loss: 0.0003567324602045119 Batch 11/18, Loss: 0.0004959428333677351 Epoch 1397/1500

Batch 1/18, Loss: 0.00028062466299161315 Batch 11/18, Loss: 0.00021603137429337949 Epoch 1398/1500

Batch 1/18, Loss: 0.00044551683822646737 Batch 11/18, Loss: 0.00015507875650655478 Epoch 1399/1500

Batch 1/18, Loss: 0.00010822716285474598 Batch 11/18, Loss: 0.0003123394853901118 Epoch 1400/1500

Batch 1/18, Loss: 0.0010438046883791685 Batch 11/18, Loss: 0.00021623230713885278

Epoch 1401/1500

Batch 1/18, Loss: 0.00029083952540531754 Batch 11/18, Loss: 0.00036767430719919503 After epoch 1400, loss=0.0002508806064724922 Epoch 1402/1500

Batch 1/18, Loss: 0.00021929977810941637 Batch 11/18, Loss: 0.00020911870524287224 Epoch 1403/1500

Batch 1/18, Loss: 0.00015883198648225516 Batch 11/18, Loss: 9.418071567779407e-05 Epoch 1404/1500

Batch 1/18, Loss: 0.00017667197971604764 Batch 11/18, Loss: 0.00027405383298173547 Epoch 1405/1500

Batch 1/18, Loss: 0.00023050798336043954 Batch 11/18, Loss: 0.0002822191745508462 Epoch 1406/1500

Batch 1/18, Loss: 0.00016239873366430402 Batch 11/18, Loss: 0.00014479446690529585 Epoch 1407/1500

Batch 1/18, Loss: 0.00023859521024860442 Batch 11/18, Loss: 0.0008860771777108312

Epoch 1408/1500

Batch 1/18, Loss: 0.0005713925929740071 Batch 11/18, Loss: 0.00022465801157522947 Epoch 1409/1500

Batch 1/18, Loss: 0.000820896471850574 Batch 11/18, Loss: 0.0004148808366153389 Epoch 1410/1500

Batch 1/18, Loss: 0.0002645571657922119
Batch 11/18, Loss: 0.00020463857799768448
Epoch 1411/1500

Batch 1/18, Loss: 0.0001506667904322967 Batch 11/18, Loss: 0.00020979328837711364 Epoch 1412/1500

Batch 1/18, Loss: 0.00020349422993604094 Batch 11/18, Loss: 0.00024301027588080615 Epoch 1413/1500

Batch 1/18, Loss: 0.00013866618974134326 Batch 11/18, Loss: 0.0001879371702671051 Epoch 1414/1500

Batch 1/18, Loss: 0.00021794487838633358 Batch 11/18, Loss: 0.0002381862432230264 Epoch 1415/1500

Epoch 1416/1500

Batch 1/18, Loss: 0.00016859314928296953 Batch 11/18, Loss: 0.00017267045041080564 Epoch 1417/1500

Batch 1/18, Loss: 0.0009562709601595998 Batch 11/18, Loss: 0.00019709535990841687 Epoch 1418/1500

Batch 1/18, Loss: 0.00032835479942150414
Batch 11/18, Loss: 0.0002008935553021729
Epoch 1419/1500

Batch 1/18, Loss: 0.00013990832667332143 Batch 11/18, Loss: 0.0008785783429630101 Epoch 1420/1500

Batch 1/18, Loss: 0.00018349150195717812 Batch 11/18, Loss: 0.00014401739463210106 Epoch 1421/1500

Batch 1/18, Loss: 0.00020499300444498658 Batch 11/18, Loss: 0.00030044856248423457 Epoch 1422/1500

Batch 1/18, Loss: 0.00022098749468568712 Batch 11/18, Loss: 0.00021332668256945908 Epoch 1423/1500

Batch 1/18, Loss: 0.00014201912563294172 Batch 11/18, Loss: 0.00016336383123416454 Epoch 1424/1500

Batch 1/18, Loss: 0.00020774555741809309 Batch 11/18, Loss: 0.00020562540157698095 Epoch 1425/1500

Batch 1/18, Loss: 0.00015492788224946707 Batch 11/18, Loss: 0.00034590609720908105 Epoch 1426/1500

Batch 1/18, Loss: 0.0005476833321154118 Batch 11/18, Loss: 0.0002845098788384348 Epoch 1427/1500

Batch 1/18, Loss: 0.00034936677548103034 Batch 11/18, Loss: 0.0004910732968710363 Epoch 1428/1500

Batch 1/18, Loss: 0.00010906546231126413 Batch 11/18, Loss: 0.00024232699070125818 Epoch 1429/1500

Batch 1/18, Loss: 0.0001902352669276297 Batch 11/18, Loss: 0.00014901300892233849 Epoch 1430/1500

Batch 1/18, Loss: 0.0002205247146775946 Batch 11/18, Loss: 0.0003648437559604645 Epoch 1431/1500

Epoch 1432/1500

Batch 1/18, Loss: 0.00020948343444615602 Batch 11/18, Loss: 0.00015916759730316699 Epoch 1433/1500

Batch 1/18, Loss: 0.00019105811952613294 Batch 11/18, Loss: 0.0005555718671530485 Epoch 1434/1500

Batch 1/18, Loss: 0.00019349134527146816 Batch 11/18, Loss: 0.0005253892159089446 Epoch 1435/1500

Batch 1/18, Loss: 0.0009468487114645541 Batch 11/18, Loss: 0.0004778472939506173 Epoch 1436/1500

Batch 1/18, Loss: 0.00025918742176145315 Batch 11/18, Loss: 0.0011207242496311665 Epoch 1437/1500

Batch 1/18, Loss: 0.00014883744006510824 Batch 11/18, Loss: 0.00035840150667354465 Epoch 1438/1500

Batch 1/18, Loss: 0.00023328674433287233 Batch 11/18, Loss: 0.0009279070654883981 Epoch 1439/1500

Batch 1/18, Loss: 0.00033854570938274264
Batch 11/18, Loss: 0.00024053052766248584

Epoch 1440/1500

Batch 1/18, Loss: 0.00017220572044607252 Batch 11/18, Loss: 0.0002586586633697152 Epoch 1441/1500

Batch 1/18, Loss: 7.877488678786904e-05 Batch 11/18, Loss: 0.00026009936118498445 Epoch 1442/1500

Batch 1/18, Loss: 0.00019226546282880008 Batch 11/18, Loss: 0.00019099189375992864 Epoch 1443/1500

Batch 1/18, Loss: 0.0008723913342691958 Batch 11/18, Loss: 0.0002897801750805229 Epoch 1444/1500

Batch 1/18, Loss: 0.00015029699716251343 Batch 11/18, Loss: 0.0001707475312286988 Epoch 1445/1500

Batch 1/18, Loss: 0.0003603612130973488
Batch 11/18, Loss: 0.00020492143812589347
Epoch 1446/1500

Batch 1/18, Loss: 0.00016515745664946735 Batch 11/18, Loss: 0.0001617076195543632 Epoch 1447/1500

Epoch 1448/1500

Batch 1/18, Loss: 0.00017746855155564845 Batch 11/18, Loss: 0.0002108327462337911 Epoch 1449/1500

Batch 1/18, Loss: 0.00031356082763522863 Batch 11/18, Loss: 0.0003325598081573844 Epoch 1450/1500

Batch 1/18, Loss: 0.00014825751713942736 Batch 11/18, Loss: 0.00015793167403899133 Epoch 1451/1500

Batch 1/18, Loss: 0.000202114722924307 Batch 11/18, Loss: 0.000186494697118178 After epoch 1450, loss=0.0003149007388856262 Epoch 1452/1500

Batch 1/18, Loss: 0.0009184750379063189 Batch 11/18, Loss: 0.00023010780569165945 Epoch 1453/1500

Batch 1/18, Loss: 0.00014868097787257284 Batch 11/18, Loss: 0.0001786134234862402 Epoch 1454/1500

Batch 1/18, Loss: 0.00032717548310756683 Batch 11/18, Loss: 0.00016833598783705384 Epoch 1455/1500

Batch 1/18, Loss: 0.0005425570416264236 Batch 11/18, Loss: 0.0002460756222717464 Epoch 1456/1500

Batch 1/18, Loss: 0.00012721918756142259 Batch 11/18, Loss: 0.00027136554126627743 Epoch 1457/1500

Batch 1/18, Loss: 0.0001389016688335687 Batch 11/18, Loss: 0.0001572278852108866 Epoch 1458/1500

Batch 1/18, Loss: 0.00010226191079709679 Batch 11/18, Loss: 0.0005125040770508349 Epoch 1459/1500

Batch 1/18, Loss: 0.00025900453329086304 Batch 11/18, Loss: 0.0008687273948453367 Epoch 1460/1500

Batch 1/18, Loss: 0.00011684649507515132 Batch 11/18, Loss: 0.00020853815658483654 Epoch 1461/1500

Batch 1/18, Loss: 0.00021546843345277011 Batch 11/18, Loss: 0.00015176368469838053 Epoch 1462/1500

Batch 1/18, Loss: 0.00016513840819243342 Batch 11/18, Loss: 0.000154985609697178 Epoch 1463/1500

Batch 11/18, Loss: 0.00013285884051583707

Epoch 1464/1500

Batch 1/18, Loss: 0.00016050539852585644

Batch 11/18, Loss: 0.000860298634506762

Epoch 1465/1500

Batch 1/18, Loss: 0.0003610012645367533

Batch 11/18, Loss: 0.00019791853264905512

Epoch 1466/1500

Batch 1/18, Loss: 0.0002677152515389025

Batch 11/18, Loss: 0.00034358273842372

Epoch 1467/1500

Batch 1/18, Loss: 0.00014385764370672405

Batch 11/18, Loss: 0.00025609819567762315

Epoch 1468/1500

Batch 1/18, Loss: 0.00012068764044670388

Batch 11/18, Loss: 0.00016269265324808657

Epoch 1469/1500

Batch 1/18, Loss: 0.0002194108528783545

Batch 11/18, Loss: 0.00014536625531036407

Epoch 1470/1500

Batch 1/18, Loss: 0.00016414973651990294

Batch 11/18, Loss: 0.000958258577156812

Epoch 1471/1500

Batch 1/18, Loss: 0.0003184013476129621

Batch 11/18, Loss: 0.0002006400318350643

Epoch 1472/1500

Batch 1/18, Loss: 0.00018236499454360455

Batch 11/18, Loss: 0.00010911092977039516

Epoch 1473/1500

Batch 1/18, Loss: 0.00023673829855397344

Batch 11/18, Loss: 0.00020290448446758091

Epoch 1474/1500

Batch 1/18, Loss: 0.00012051704106852412

Batch 11/18, Loss: 0.000172918094904162

Epoch 1475/1500

Batch 1/18, Loss: 0.00023317270097322762

Batch 11/18, Loss: 0.00022459823230747133

Epoch 1476/1500

Batch 1/18, Loss: 0.00014626109623350203

Batch 11/18, Loss: 0.00013532087905332446

Epoch 1477/1500

Batch 1/18, Loss: 0.00028429419035091996

Batch 11/18, Loss: 0.00017234875122085214

Epoch 1478/1500

Batch 1/18, Loss: 0.00022790877847000957

Batch 11/18, Loss: 0.0002512643113732338

Epoch 1479/1500

Batch 1/18, Loss: 0.00025569560239091516 Batch 11/18, Loss: 0.00027767830761149526

Epoch 1480/1500

Batch 1/18, Loss: 0.0001675290841376409 Batch 11/18, Loss: 0.0001566652936162427

Epoch 1481/1500

Batch 1/18, Loss: 0.0001378773886244744
Batch 11/18, Loss: 0.000919244484975934

Epoch 1482/1500

Batch 1/18, Loss: 0.0009240279905498028 Batch 11/18, Loss: 0.00030528640490956604 Epoch 1483/1500

Batch 1/18, Loss: 9.739083179738373e-05 Batch 11/18, Loss: 9.333693014923483e-05 Epoch 1484/1500

Batch 1/18, Loss: 0.00013361343008000404 Batch 11/18, Loss: 0.0002072378556476906 Epoch 1485/1500

Batch 1/18, Loss: 0.0003244933905079961 Batch 11/18, Loss: 0.00022213532065507025 Epoch 1486/1500

Batch 1/18, Loss: 0.0002691876143217087 Batch 11/18, Loss: 0.0010559819638729095 Epoch 1487/1500

Batch 1/18, Loss: 0.00017890729941427708 Batch 11/18, Loss: 0.00019426713697612286 Epoch 1488/1500

Batch 1/18, Loss: 0.0002271006378578022 Batch 11/18, Loss: 0.0009942753240466118 Epoch 1489/1500

Batch 1/18, Loss: 0.00017101231787819415 Batch 11/18, Loss: 0.0002656678552739322 Epoch 1490/1500

Batch 1/18, Loss: 0.0002678335877135396 Batch 11/18, Loss: 0.00027232139836996794 Epoch 1491/1500

Batch 1/18, Loss: 0.0001399007742293179 Batch 11/18, Loss: 0.0002318676997674629 Epoch 1492/1500

Batch 1/18, Loss: 0.00012260109360795468
Batch 11/18, Loss: 0.00041386374505236745
Epoch 1493/1500

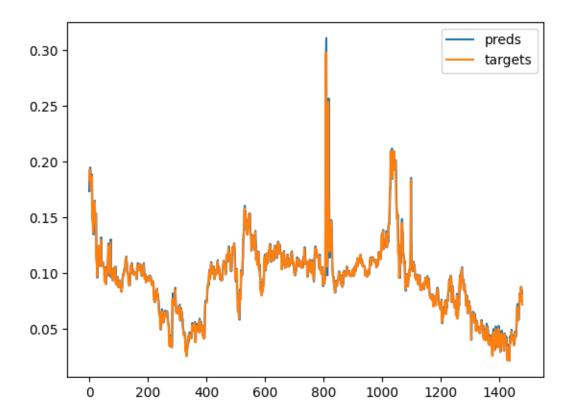
Batch 1/18, Loss: 0.00013573956675827503 Batch 11/18, Loss: 0.00021891697542741895 Epoch 1494/1500

Batch 1/18, Loss: 0.00017579327686689794 Batch 11/18, Loss: 0.0002834067854564637 Epoch 1495/1500

```
Batch 1/18, Loss: 0.00022861866455059499
       Batch 11/18, Loss: 0.0001813260605558753
     Epoch 1496/1500
       Batch 1/18, Loss: 0.00067803671117872
       Batch 11/18, Loss: 0.0002587959461379796
     Epoch 1497/1500
       Batch 1/18, Loss: 0.0003937160363420844
       Batch 11/18, Loss: 0.00016140338266268373
     Epoch 1498/1500
       Batch 1/18, Loss: 0.00015754839114379138
       Batch 11/18, Loss: 0.0001900490024127066
     Epoch 1499/1500
       Batch 1/18, Loss: 0.00013470703561324626
       Batch 11/18, Loss: 0.0005301081691868603
     Epoch 1500/1500
       Batch 1/18, Loss: 0.00021437389659695327
       Batch 11/18, Loss: 0.00011224076297366992
[25]: preds = []
      targets = []
      for i, (batch, target) in enumerate(test_data):
          preds.append(model(batch).item())
          targets.append(target.item())
          if i % 10 == 0:
              print(f"Processing batch {i+1}/{len(test_data)}")
      print("Prediction completed!")
     Processing batch 1/1478
     Processing batch 11/1478
     Processing batch 21/1478
     Processing batch 31/1478
     Processing batch 41/1478
     Processing batch 51/1478
     Processing batch 61/1478
     Processing batch 71/1478
     Processing batch 81/1478
     Processing batch 91/1478
     Processing batch 101/1478
     Processing batch 111/1478
     Processing batch 121/1478
     Processing batch 131/1478
     Processing batch 141/1478
     Processing batch 151/1478
     Processing batch 161/1478
     Processing batch 171/1478
     Processing batch 181/1478
```

Processing batch 191/1478 Processing batch 201/1478 Processing batch 211/1478 Processing batch 221/1478 Processing batch 231/1478 Processing batch 241/1478 Processing batch 251/1478 Processing batch 261/1478 Processing batch 271/1478 Processing batch 281/1478 Processing batch 291/1478 Processing batch 301/1478 Processing batch 311/1478 Processing batch 321/1478 Processing batch 331/1478 Processing batch 341/1478 Processing batch 351/1478 Processing batch 361/1478 Processing batch 371/1478 Processing batch 381/1478 Processing batch 391/1478 Processing batch 401/1478 Processing batch 411/1478 Processing batch 421/1478 Processing batch 431/1478 Processing batch 441/1478 Processing batch 451/1478 Processing batch 461/1478 Processing batch 471/1478 Processing batch 481/1478 Processing batch 491/1478 Processing batch 501/1478 Processing batch 511/1478 Processing batch 521/1478 Processing batch 531/1478 Processing batch 541/1478 Processing batch 551/1478 Processing batch 561/1478 Processing batch 571/1478 Processing batch 581/1478 Processing batch 591/1478 Processing batch 601/1478 Processing batch 611/1478 Processing batch 621/1478 Processing batch 631/1478 Processing batch 641/1478 Processing batch 651/1478 Processing batch 661/1478 Processing batch 671/1478 Processing batch 681/1478 Processing batch 691/1478 Processing batch 701/1478 Processing batch 711/1478 Processing batch 721/1478 Processing batch 731/1478 Processing batch 741/1478 Processing batch 751/1478 Processing batch 761/1478 Processing batch 771/1478 Processing batch 781/1478 Processing batch 791/1478 Processing batch 801/1478 Processing batch 811/1478 Processing batch 821/1478 Processing batch 831/1478 Processing batch 841/1478 Processing batch 851/1478 Processing batch 861/1478 Processing batch 871/1478 Processing batch 881/1478 Processing batch 891/1478 Processing batch 901/1478 Processing batch 911/1478 Processing batch 921/1478 Processing batch 931/1478 Processing batch 941/1478 Processing batch 951/1478 Processing batch 961/1478 Processing batch 971/1478 Processing batch 981/1478 Processing batch 991/1478 Processing batch 1001/1478 Processing batch 1011/1478 Processing batch 1021/1478 Processing batch 1031/1478 Processing batch 1041/1478 Processing batch 1051/1478 Processing batch 1061/1478 Processing batch 1071/1478 Processing batch 1081/1478 Processing batch 1091/1478 Processing batch 1101/1478 Processing batch 1111/1478 Processing batch 1121/1478 Processing batch 1131/1478 Processing batch 1141/1478

```
Processing batch 1151/1478
     Processing batch 1161/1478
     Processing batch 1171/1478
     Processing batch 1181/1478
     Processing batch 1191/1478
     Processing batch 1201/1478
     Processing batch 1211/1478
     Processing batch 1221/1478
     Processing batch 1231/1478
     Processing batch 1241/1478
     Processing batch 1251/1478
     Processing batch 1261/1478
     Processing batch 1271/1478
     Processing batch 1281/1478
     Processing batch 1291/1478
     Processing batch 1301/1478
     Processing batch 1311/1478
     Processing batch 1321/1478
     Processing batch 1331/1478
     Processing batch 1341/1478
     Processing batch 1351/1478
     Processing batch 1361/1478
     Processing batch 1371/1478
     Processing batch 1381/1478
     Processing batch 1391/1478
     Processing batch 1401/1478
     Processing batch 1411/1478
     Processing batch 1421/1478
     Processing batch 1431/1478
     Processing batch 1441/1478
     Processing batch 1451/1478
     Processing batch 1461/1478
     Processing batch 1471/1478
     Prediction completed!
[26]: plt.plot(range(len(test_data)), preds, label="preds")
      plt.plot(range(len(test_data)), targets, label="targets")
      plt.legend()
      plt.show()
```



[]: