

main

February 18, 2025

```
[4]: import numpy as np
import tensorflow as tf
from tensorflow import keras
from tensorflow.keras.layers import Dense
from tensorflow.keras.models import Sequential

[5]: # XOR Input
X = np.array([[0, 0], [0, 1], [1, 0], [1, 1]], dtype=np.float32)
# XOR Output
y = np.array([[0], [1], [1], [0]], dtype=np.float32)

[6]: model = Sequential([
    Dense(2, input_shape=(2,), activation='sigmoid'), # Hidden layer with 2
    ↪neurons
    Dense(1, activation='sigmoid') # Output layer
])

[7]: model.compile(optimizer='adam', loss='binary_crossentropy',
    ↪metrics=['accuracy'])

[9]: with tf.device('/GPU:0'): # Forces TensorFlow to use GPU
    history = model.fit(X, y, epochs=5000, verbose=1) # Train for 5000 epochs
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Epoch 1/5000
1/1 [=====] - 0s 28ms/step - loss: 0.0891 - accuracy:
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Epoch 2/5000
1/1 [=====] - 0s 3ms/step - loss: 0.0890 - accuracy:
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Epoch 3/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0890 - accuracy:
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Epoch 5/5000
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Epoch 6/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0889 - accuracy:
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Epoch 7/5000
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Epoch 22/5000
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Epoch 28/5000
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Epoch 35/5000
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Epoch 38/5000
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Epoch 39/5000
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Epoch 40/5000
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Epoch 41/5000
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Epoch 42/5000
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Epoch 43/5000
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Epoch 44/5000
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Epoch 45/5000
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Epoch 46/5000
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Epoch 50/5000
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Epoch 134/5000
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Epoch 150/5000
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Epoch 158/5000
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Epoch 162/5000
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1/1 [=====] - 0s 16ms/step - loss: 0.0831 - accuracy:
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Epoch 164/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0831 - accuracy:
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Epoch 165/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0830 - accuracy:
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Epoch 166/5000
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Epoch 167/5000
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Epoch 168/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0829 - accuracy:
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Epoch 170/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0829 - accuracy:
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Epoch 171/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0828 - accuracy:
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Epoch 172/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0828 - accuracy:
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Epoch 173/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0827 - accuracy:
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Epoch 174/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0827 - accuracy:
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Epoch 175/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0827 - accuracy:
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Epoch 176/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0827 - accuracy:
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Epoch 177/5000
1/1 [=====] - 0s 24ms/step - loss: 0.0826 - accuracy:
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Epoch 178/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0826 - accuracy:
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Epoch 179/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0825 - accuracy:
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Epoch 180/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0825 - accuracy:
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Epoch 181/5000
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Epoch 182/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0824 - accuracy:
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Epoch 183/5000
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Epoch 184/5000
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Epoch 185/5000
1/1 [=====] - 0s 0s/step - loss: 0.0823 - accuracy:
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Epoch 186/5000
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Epoch 187/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0822 - accuracy:
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Epoch 188/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0822 - accuracy:
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Epoch 189/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0822 - accuracy:
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Epoch 190/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0822 - accuracy:
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Epoch 191/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0821 - accuracy:
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Epoch 192/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0821 - accuracy:
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Epoch 193/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0821 - accuracy:
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Epoch 194/5000
1/1 [=====] - 0s 0s/step - loss: 0.0820 - accuracy:
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Epoch 195/5000
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Epoch 196/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0819 - accuracy:
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Epoch 197/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0819 - accuracy:
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Epoch 198/5000
1/1 [=====] - 0s 0s/step - loss: 0.0819 - accuracy:
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Epoch 199/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0818 - accuracy:
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Epoch 200/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0818 - accuracy:
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Epoch 201/5000
1/1 [=====] - 0s 0s/step - loss: 0.0818 - accuracy:
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Epoch 202/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0817 - accuracy:
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Epoch 203/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0817 - accuracy:
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Epoch 204/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0817 - accuracy:
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Epoch 205/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0816 - accuracy:
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Epoch 206/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0816 - accuracy:
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Epoch 207/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0816 - accuracy:
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Epoch 208/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0815 - accuracy:
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Epoch 209/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0815 - accuracy:
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Epoch 210/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0814 - accuracy:
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Epoch 211/5000
1/1 [=====] - 0s 5ms/step - loss: 0.0814 - accuracy:
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Epoch 212/5000
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Epoch 213/5000
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1.0000

Epoch 214/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0813 - accuracy:
1.0000

Epoch 215/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0813 - accuracy:
1.0000

Epoch 216/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0812 - accuracy:
1.0000

Epoch 217/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0812 - accuracy:
1.0000

Epoch 218/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0812 - accuracy:
1.0000

Epoch 219/5000
1/1 [=====] - 0s 3ms/step - loss: 0.0811 - accuracy:
1.0000

Epoch 220/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0811 - accuracy:
1.0000

Epoch 221/5000
1/1 [=====] - 0s 0s/step - loss: 0.0811 - accuracy:
1.0000

Epoch 222/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0811 - accuracy:
1.0000

Epoch 223/5000
1/1 [=====] - 0s 0s/step - loss: 0.0810 - accuracy:
1.0000

Epoch 224/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0809 - accuracy:
1.0000

Epoch 225/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0809 - accuracy:
1.0000

Epoch 226/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0809 - accuracy:
1.0000

Epoch 227/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0809 - accuracy:
1.0000

Epoch 228/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0809 - accuracy:
1.0000

Epoch 229/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0808 - accuracy:
1.0000

Epoch 230/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0808 - accuracy:
1.0000

Epoch 231/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0807 - accuracy:
1.0000

Epoch 232/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0807 - accuracy:
1.0000

Epoch 233/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0807 - accuracy:
1.0000

Epoch 234/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0806 - accuracy:
1.0000

Epoch 235/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0806 - accuracy:
1.0000

Epoch 236/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0806 - accuracy:
1.0000

Epoch 237/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0806 - accuracy:
1.0000

Epoch 238/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0805 - accuracy:
1.0000

Epoch 239/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0804 - accuracy:
1.0000

Epoch 240/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0804 - accuracy:
1.0000

Epoch 241/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0804 - accuracy:
1.0000

Epoch 242/5000
1/1 [=====] - 0s 5ms/step - loss: 0.0804 - accuracy:
1.0000

Epoch 243/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0803 - accuracy:
1.0000

Epoch 244/5000
1/1 [=====] - 0s 0s/step - loss: 0.0803 - accuracy:
1.0000

Epoch 245/5000
1/1 [=====] - 0s 0s/step - loss: 0.0803 - accuracy:
1.0000

Epoch 246/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0802 - accuracy: 1.0000

Epoch 247/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0802 - accuracy: 1.0000

Epoch 248/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0801 - accuracy: 1.0000

Epoch 249/5000
1/1 [=====] - 0s 3ms/step - loss: 0.0801 - accuracy: 1.0000

Epoch 250/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0801 - accuracy: 1.0000

Epoch 251/5000
1/1 [=====] - 0s 0s/step - loss: 0.0801 - accuracy: 1.0000

Epoch 252/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0801 - accuracy: 1.0000

Epoch 253/5000
1/1 [=====] - 0s 0s/step - loss: 0.0800 - accuracy: 1.0000

Epoch 254/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0799 - accuracy: 1.0000

Epoch 255/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0799 - accuracy: 1.0000

Epoch 256/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0799 - accuracy: 1.0000

Epoch 257/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0799 - accuracy: 1.0000

Epoch 258/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0798 - accuracy: 1.0000

Epoch 259/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0798 - accuracy: 1.0000

Epoch 260/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0798 - accuracy: 1.0000

Epoch 261/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0797 - accuracy: 1.0000

Epoch 262/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0797 - accuracy:
1.0000
Epoch 263/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0796 - accuracy:
1.0000
Epoch 264/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0796 - accuracy:
1.0000
Epoch 265/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0796 - accuracy:
1.0000
Epoch 266/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0796 - accuracy:
1.0000
Epoch 267/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0795 - accuracy:
1.0000
Epoch 268/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0795 - accuracy:
1.0000
Epoch 269/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0794 - accuracy:
1.0000
Epoch 270/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0794 - accuracy:
1.0000
Epoch 271/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0794 - accuracy:
1.0000
Epoch 272/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0793 - accuracy:
1.0000
Epoch 273/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0793 - accuracy:
1.0000
Epoch 274/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0793 - accuracy:
1.0000
Epoch 275/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0793 - accuracy:
1.0000
Epoch 276/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0792 - accuracy:
1.0000
Epoch 277/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0792 - accuracy:
1.0000

Epoch 278/5000
1/1 [=====] - 0s 0s/step - loss: 0.0791 - accuracy:
1.0000
Epoch 279/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0791 - accuracy:
1.0000
Epoch 280/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0791 - accuracy:
1.0000
Epoch 281/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0791 - accuracy:
1.0000
Epoch 282/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0790 - accuracy:
1.0000
Epoch 283/5000
1/1 [=====] - 0s 0s/step - loss: 0.0790 - accuracy:
1.0000
Epoch 284/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0789 - accuracy:
1.0000
Epoch 285/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0789 - accuracy:
1.0000
Epoch 286/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0789 - accuracy:
1.0000
Epoch 287/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0788 - accuracy:
1.0000
Epoch 288/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0788 - accuracy:
1.0000
Epoch 289/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0788 - accuracy:
1.0000
Epoch 290/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0788 - accuracy:
1.0000
Epoch 291/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0787 - accuracy:
1.0000
Epoch 292/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0787 - accuracy:
1.0000
Epoch 293/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0786 - accuracy:
1.0000

Epoch 294/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0786 - accuracy:
1.0000
Epoch 295/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0786 - accuracy:
1.0000
Epoch 296/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0786 - accuracy:
1.0000
Epoch 297/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0785 - accuracy:
1.0000
Epoch 298/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0785 - accuracy:
1.0000
Epoch 299/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0784 - accuracy:
1.0000
Epoch 300/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0784 - accuracy:
1.0000
Epoch 301/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0784 - accuracy:
1.0000
Epoch 302/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0783 - accuracy:
1.0000
Epoch 303/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0783 - accuracy:
1.0000
Epoch 304/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0783 - accuracy:
1.0000
Epoch 305/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0783 - accuracy:
1.0000
Epoch 306/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0782 - accuracy:
1.0000
Epoch 307/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0782 - accuracy:
1.0000
Epoch 308/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0781 - accuracy:
1.0000
Epoch 309/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0781 - accuracy:
1.0000

Epoch 310/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0781 - accuracy:
1.0000

Epoch 311/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0781 - accuracy:
1.0000

Epoch 312/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0780 - accuracy:
1.0000

Epoch 313/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0780 - accuracy:
1.0000

Epoch 314/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0780 - accuracy:
1.0000

Epoch 315/5000
1/1 [=====] - 0s 0s/step - loss: 0.0779 - accuracy:
1.0000

Epoch 316/5000
1/1 [=====] - 0s 0s/step - loss: 0.0779 - accuracy:
1.0000

Epoch 317/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0779 - accuracy:
1.0000

Epoch 318/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0778 - accuracy:
1.0000

Epoch 319/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0778 - accuracy:
1.0000

Epoch 320/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0778 - accuracy:
1.0000

Epoch 321/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0777 - accuracy:
1.0000

Epoch 322/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0777 - accuracy:
1.0000

Epoch 323/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0776 - accuracy:
1.0000

Epoch 324/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0776 - accuracy:
1.0000

Epoch 325/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0776 - accuracy:
1.0000

Epoch 326/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0776 - accuracy:
1.0000
Epoch 327/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0776 - accuracy:
1.0000
Epoch 328/5000
1/1 [=====] - 0s 0s/step - loss: 0.0775 - accuracy:
1.0000
Epoch 329/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0775 - accuracy:
1.0000
Epoch 330/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0774 - accuracy:
1.0000
Epoch 331/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0774 - accuracy:
1.0000
Epoch 332/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0774 - accuracy:
1.0000
Epoch 333/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0773 - accuracy:
1.0000
Epoch 334/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0773 - accuracy:
1.0000
Epoch 335/5000
1/1 [=====] - 0s 5ms/step - loss: 0.0773 - accuracy:
1.0000
Epoch 336/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0772 - accuracy:
1.0000
Epoch 337/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0772 - accuracy:
1.0000
Epoch 338/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0772 - accuracy:
1.0000
Epoch 339/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0771 - accuracy:
1.0000
Epoch 340/5000
1/1 [=====] - 0s 0s/step - loss: 0.0771 - accuracy:
1.0000
Epoch 341/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0771 - accuracy:
1.0000

Epoch 342/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0771 - accuracy:
1.0000
Epoch 343/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0770 - accuracy:
1.0000
Epoch 344/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0770 - accuracy:
1.0000
Epoch 345/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0770 - accuracy:
1.0000
Epoch 346/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0769 - accuracy:
1.0000
Epoch 347/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0769 - accuracy:
1.0000
Epoch 348/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0769 - accuracy:
1.0000
Epoch 349/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0768 - accuracy:
1.0000
Epoch 350/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0768 - accuracy:
1.0000
Epoch 351/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0768 - accuracy:
1.0000
Epoch 352/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0767 - accuracy:
1.0000
Epoch 353/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0767 - accuracy:
1.0000
Epoch 354/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0766 - accuracy:
1.0000
Epoch 355/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0766 - accuracy:
1.0000
Epoch 356/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0766 - accuracy:
1.0000
Epoch 357/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0766 - accuracy:
1.0000

Epoch 358/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0766 - accuracy:
1.0000

Epoch 359/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0765 - accuracy:
1.0000

Epoch 360/5000
1/1 [=====] - 0s 0s/step - loss: 0.0765 - accuracy:
1.0000

Epoch 361/5000
1/1 [=====] - 0s 0s/step - loss: 0.0764 - accuracy:
1.0000

Epoch 362/5000
1/1 [=====] - 0s 3ms/step - loss: 0.0764 - accuracy:
1.0000

Epoch 363/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0764 - accuracy:
1.0000

Epoch 364/5000
1/1 [=====] - 0s 0s/step - loss: 0.0764 - accuracy:
1.0000

Epoch 365/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0763 - accuracy:
1.0000

Epoch 366/5000
1/1 [=====] - 0s 0s/step - loss: 0.0763 - accuracy:
1.0000

Epoch 367/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0763 - accuracy:
1.0000

Epoch 368/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0762 - accuracy:
1.0000

Epoch 369/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0762 - accuracy:
1.0000

Epoch 370/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0761 - accuracy:
1.0000

Epoch 371/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0761 - accuracy:
1.0000

Epoch 372/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0761 - accuracy:
1.0000

Epoch 373/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0761 - accuracy:
1.0000

Epoch 374/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0760 - accuracy:
1.0000
Epoch 375/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0760 - accuracy:
1.0000
Epoch 376/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0760 - accuracy:
1.0000
Epoch 377/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0759 - accuracy:
1.0000
Epoch 378/5000
1/1 [=====] - 0s 0s/step - loss: 0.0759 - accuracy:
1.0000
Epoch 379/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0759 - accuracy:
1.0000
Epoch 380/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0758 - accuracy:
1.0000
Epoch 381/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0758 - accuracy:
1.0000
Epoch 382/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0758 - accuracy:
1.0000
Epoch 383/5000
1/1 [=====] - 0s 23ms/step - loss: 0.0757 - accuracy:
1.0000
Epoch 384/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0757 - accuracy:
1.0000
Epoch 385/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0757 - accuracy:
1.0000
Epoch 386/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0756 - accuracy:
1.0000
Epoch 387/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0756 - accuracy:
1.0000
Epoch 388/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0756 - accuracy:
1.0000
Epoch 389/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0755 - accuracy:
1.0000

Epoch 390/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0755 - accuracy:
1.0000
Epoch 391/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0755 - accuracy:
1.0000
Epoch 392/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0754 - accuracy:
1.0000
Epoch 393/5000
1/1 [=====] - 0s 0s/step - loss: 0.0754 - accuracy:
1.0000
Epoch 394/5000
1/1 [=====] - 0s 0s/step - loss: 0.0754 - accuracy:
1.0000
Epoch 395/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0754 - accuracy:
1.0000
Epoch 396/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0753 - accuracy:
1.0000
Epoch 397/5000
1/1 [=====] - 0s 0s/step - loss: 0.0753 - accuracy:
1.0000
Epoch 398/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0753 - accuracy:
1.0000
Epoch 399/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0752 - accuracy:
1.0000
Epoch 400/5000
1/1 [=====] - 0s 0s/step - loss: 0.0752 - accuracy:
1.0000
Epoch 401/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0752 - accuracy:
1.0000
Epoch 402/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0751 - accuracy:
1.0000
Epoch 403/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0751 - accuracy:
1.0000
Epoch 404/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0751 - accuracy:
1.0000
Epoch 405/5000
1/1 [=====] - 0s 0s/step - loss: 0.0750 - accuracy:
1.0000

Epoch 406/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0750 - accuracy:
1.0000

Epoch 407/5000
1/1 [=====] - 0s 3ms/step - loss: 0.0750 - accuracy:
1.0000

Epoch 408/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0750 - accuracy:
1.0000

Epoch 409/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0749 - accuracy:
1.0000

Epoch 410/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0749 - accuracy:
1.0000

Epoch 411/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0749 - accuracy:
1.0000

Epoch 412/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0748 - accuracy:
1.0000

Epoch 413/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0748 - accuracy:
1.0000

Epoch 414/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0748 - accuracy:
1.0000

Epoch 415/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0747 - accuracy:
1.0000

Epoch 416/5000
1/1 [=====] - 0s 5ms/step - loss: 0.0747 - accuracy:
1.0000

Epoch 417/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0747 - accuracy:
1.0000

Epoch 418/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0747 - accuracy:
1.0000

Epoch 419/5000
1/1 [=====] - 0s 0s/step - loss: 0.0746 - accuracy:
1.0000

Epoch 420/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0746 - accuracy:
1.0000

Epoch 421/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0746 - accuracy:
1.0000

Epoch 422/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0745 - accuracy: 1.0000

Epoch 423/5000
1/1 [=====] - 0s 5ms/step - loss: 0.0745 - accuracy: 1.0000

Epoch 424/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0745 - accuracy: 1.0000

Epoch 425/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0744 - accuracy: 1.0000

Epoch 426/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0744 - accuracy: 1.0000

Epoch 427/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0744 - accuracy: 1.0000

Epoch 428/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0743 - accuracy: 1.0000

Epoch 429/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0743 - accuracy: 1.0000

Epoch 430/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0743 - accuracy: 1.0000

Epoch 431/5000
1/1 [=====] - 0s 0s/step - loss: 0.0742 - accuracy: 1.0000

Epoch 432/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0742 - accuracy: 1.0000

Epoch 433/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0742 - accuracy: 1.0000

Epoch 434/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0741 - accuracy: 1.0000

Epoch 435/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0741 - accuracy: 1.0000

Epoch 436/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0741 - accuracy: 1.0000

Epoch 437/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0741 - accuracy: 1.0000

Epoch 438/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0740 - accuracy:
1.0000
Epoch 439/5000
1/1 [=====] - 0s 5ms/step - loss: 0.0740 - accuracy:
1.0000
Epoch 440/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0740 - accuracy:
1.0000
Epoch 441/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0739 - accuracy:
1.0000
Epoch 442/5000
1/1 [=====] - 0s 0s/step - loss: 0.0739 - accuracy:
1.0000
Epoch 443/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0739 - accuracy:
1.0000
Epoch 444/5000
1/1 [=====] - 0s 5ms/step - loss: 0.0738 - accuracy:
1.0000
Epoch 445/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0738 - accuracy:
1.0000
Epoch 446/5000
1/1 [=====] - 0s 0s/step - loss: 0.0738 - accuracy:
1.0000
Epoch 447/5000
1/1 [=====] - 0s 0s/step - loss: 0.0738 - accuracy:
1.0000
Epoch 448/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0737 - accuracy:
1.0000
Epoch 449/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0737 - accuracy:
1.0000
Epoch 450/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0736 - accuracy:
1.0000
Epoch 451/5000
1/1 [=====] - 0s 0s/step - loss: 0.0736 - accuracy:
1.0000
Epoch 452/5000
1/1 [=====] - 0s 0s/step - loss: 0.0736 - accuracy:
1.0000
Epoch 453/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0736 - accuracy:
1.0000

Epoch 454/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0735 - accuracy:
1.0000
Epoch 455/5000
1/1 [=====] - 0s 0s/step - loss: 0.0735 - accuracy:
1.0000
Epoch 456/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0735 - accuracy:
1.0000
Epoch 457/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0734 - accuracy:
1.0000
Epoch 458/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0734 - accuracy:
1.0000
Epoch 459/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0734 - accuracy:
1.0000
Epoch 460/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0734 - accuracy:
1.0000
Epoch 461/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0733 - accuracy:
1.0000
Epoch 462/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0733 - accuracy:
1.0000
Epoch 463/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0733 - accuracy:
1.0000
Epoch 464/5000
1/1 [=====] - 0s 0s/step - loss: 0.0732 - accuracy:
1.0000
Epoch 465/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0732 - accuracy:
1.0000
Epoch 466/5000
1/1 [=====] - 0s 0s/step - loss: 0.0732 - accuracy:
1.0000
Epoch 467/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0731 - accuracy:
1.0000
Epoch 468/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0731 - accuracy:
1.0000
Epoch 469/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0731 - accuracy:
1.0000

Epoch 470/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0731 - accuracy:
1.0000
Epoch 471/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0730 - accuracy:
1.0000
Epoch 472/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0730 - accuracy:
1.0000
Epoch 473/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0729 - accuracy:
1.0000
Epoch 474/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0729 - accuracy:
1.0000
Epoch 475/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0729 - accuracy:
1.0000
Epoch 476/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0729 - accuracy:
1.0000
Epoch 477/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0728 - accuracy:
1.0000
Epoch 478/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0728 - accuracy:
1.0000
Epoch 479/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0728 - accuracy:
1.0000
Epoch 480/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0727 - accuracy:
1.0000
Epoch 481/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0727 - accuracy:
1.0000
Epoch 482/5000
1/1 [=====] - 0s 5ms/step - loss: 0.0727 - accuracy:
1.0000
Epoch 483/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0727 - accuracy:
1.0000
Epoch 484/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0726 - accuracy:
1.0000
Epoch 485/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0726 - accuracy:
1.0000

Epoch 486/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0726 - accuracy:
1.0000

Epoch 487/5000
1/1 [=====] - 0s 0s/step - loss: 0.0726 - accuracy:
1.0000

Epoch 488/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0725 - accuracy:
1.0000

Epoch 489/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0725 - accuracy:
1.0000

Epoch 490/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0724 - accuracy:
1.0000

Epoch 491/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0724 - accuracy:
1.0000

Epoch 492/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0724 - accuracy:
1.0000

Epoch 493/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0724 - accuracy:
1.0000

Epoch 494/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0723 - accuracy:
1.0000

Epoch 495/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0723 - accuracy:
1.0000

Epoch 496/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0722 - accuracy:
1.0000

Epoch 497/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0722 - accuracy:
1.0000

Epoch 498/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0722 - accuracy:
1.0000

Epoch 499/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0722 - accuracy:
1.0000

Epoch 500/5000
1/1 [=====] - 0s 0s/step - loss: 0.0722 - accuracy:
1.0000

Epoch 501/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0721 - accuracy:
1.0000

Epoch 502/5000
1/1 [=====] - 0s 0s/step - loss: 0.0721 - accuracy:
1.0000
Epoch 503/5000
1/1 [=====] - 0s 0s/step - loss: 0.0720 - accuracy:
1.0000
Epoch 504/5000
1/1 [=====] - 0s 0s/step - loss: 0.0720 - accuracy:
1.0000
Epoch 505/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0720 - accuracy:
1.0000
Epoch 506/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0720 - accuracy:
1.0000
Epoch 507/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0719 - accuracy:
1.0000
Epoch 508/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0719 - accuracy:
1.0000
Epoch 509/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0719 - accuracy:
1.0000
Epoch 510/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0719 - accuracy:
1.0000
Epoch 511/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0718 - accuracy:
1.0000
Epoch 512/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0718 - accuracy:
1.0000
Epoch 513/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0718 - accuracy:
1.0000
Epoch 514/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0717 - accuracy:
1.0000
Epoch 515/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0717 - accuracy:
1.0000
Epoch 516/5000
1/1 [=====] - 0s 0s/step - loss: 0.0717 - accuracy:
1.0000
Epoch 517/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0717 - accuracy:
1.0000

Epoch 518/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0716 - accuracy:
1.0000
Epoch 519/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0716 - accuracy:
1.0000
Epoch 520/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0715 - accuracy:
1.0000
Epoch 521/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0715 - accuracy:
1.0000
Epoch 522/5000
1/1 [=====] - 0s 0s/step - loss: 0.0715 - accuracy:
1.0000
Epoch 523/5000
1/1 [=====] - 0s 0s/step - loss: 0.0715 - accuracy:
1.0000
Epoch 524/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0714 - accuracy:
1.0000
Epoch 525/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0714 - accuracy:
1.0000
Epoch 526/5000
1/1 [=====] - 0s 0s/step - loss: 0.0714 - accuracy:
1.0000
Epoch 527/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0713 - accuracy:
1.0000
Epoch 528/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0713 - accuracy:
1.0000
Epoch 529/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0713 - accuracy:
1.0000
Epoch 530/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0713 - accuracy:
1.0000
Epoch 531/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0712 - accuracy:
1.0000
Epoch 532/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0712 - accuracy:
1.0000
Epoch 533/5000
1/1 [=====] - 0s 0s/step - loss: 0.0712 - accuracy:
1.0000

Epoch 534/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0711 - accuracy: 1.0000

Epoch 535/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0711 - accuracy: 1.0000

Epoch 536/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0711 - accuracy: 1.0000

Epoch 537/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0711 - accuracy: 1.0000

Epoch 538/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0710 - accuracy: 1.0000

Epoch 539/5000
1/1 [=====] - 0s 3ms/step - loss: 0.0710 - accuracy: 1.0000

Epoch 540/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0710 - accuracy: 1.0000

Epoch 541/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0710 - accuracy: 1.0000

Epoch 542/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0709 - accuracy: 1.0000

Epoch 543/5000
1/1 [=====] - 0s 0s/step - loss: 0.0709 - accuracy: 1.0000

Epoch 544/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0708 - accuracy: 1.0000

Epoch 545/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0708 - accuracy: 1.0000

Epoch 546/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0708 - accuracy: 1.0000

Epoch 547/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0708 - accuracy: 1.0000

Epoch 548/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0707 - accuracy: 1.0000

Epoch 549/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0707 - accuracy: 1.0000

Epoch 550/5000
1/1 [=====] - 0s 0s/step - loss: 0.0707 - accuracy:
1.0000

Epoch 551/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0706 - accuracy:
1.0000

Epoch 552/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0706 - accuracy:
1.0000

Epoch 553/5000
1/1 [=====] - 0s 5ms/step - loss: 0.0706 - accuracy:
1.0000

Epoch 554/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0706 - accuracy:
1.0000

Epoch 555/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0705 - accuracy:
1.0000

Epoch 556/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0705 - accuracy:
1.0000

Epoch 557/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0705 - accuracy:
1.0000

Epoch 558/5000
1/1 [=====] - 0s 0s/step - loss: 0.0704 - accuracy:
1.0000

Epoch 559/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0704 - accuracy:
1.0000

Epoch 560/5000
1/1 [=====] - 0s 0s/step - loss: 0.0704 - accuracy:
1.0000

Epoch 561/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0704 - accuracy:
1.0000

Epoch 562/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0703 - accuracy:
1.0000

Epoch 563/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0703 - accuracy:
1.0000

Epoch 564/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0703 - accuracy:
1.0000

Epoch 565/5000
1/1 [=====] - 0s 0s/step - loss: 0.0702 - accuracy:
1.0000

Epoch 566/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0702 - accuracy:
1.0000

Epoch 567/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0702 - accuracy:
1.0000

Epoch 568/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0702 - accuracy:
1.0000

Epoch 569/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0701 - accuracy:
1.0000

Epoch 570/5000
1/1 [=====] - 0s 0s/step - loss: 0.0701 - accuracy:
1.0000

Epoch 571/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0701 - accuracy:
1.0000

Epoch 572/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0701 - accuracy:
1.0000

Epoch 573/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0700 - accuracy:
1.0000

Epoch 574/5000
1/1 [=====] - 0s 0s/step - loss: 0.0700 - accuracy:
1.0000

Epoch 575/5000
1/1 [=====] - 0s 0s/step - loss: 0.0700 - accuracy:
1.0000

Epoch 576/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0699 - accuracy:
1.0000

Epoch 577/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0699 - accuracy:
1.0000

Epoch 578/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0699 - accuracy:
1.0000

Epoch 579/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0698 - accuracy:
1.0000

Epoch 580/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0698 - accuracy:
1.0000

Epoch 581/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0698 - accuracy:
1.0000

Epoch 582/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0697 - accuracy:
1.0000
Epoch 583/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0697 - accuracy:
1.0000
Epoch 584/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0697 - accuracy:
1.0000
Epoch 585/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0697 - accuracy:
1.0000
Epoch 586/5000
1/1 [=====] - 0s 23ms/step - loss: 0.0696 - accuracy:
1.0000
Epoch 587/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0696 - accuracy:
1.0000
Epoch 588/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0696 - accuracy:
1.0000
Epoch 589/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0695 - accuracy:
1.0000
Epoch 590/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0695 - accuracy:
1.0000
Epoch 591/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0695 - accuracy:
1.0000
Epoch 592/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0695 - accuracy:
1.0000
Epoch 593/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0694 - accuracy:
1.0000
Epoch 594/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0694 - accuracy:
1.0000
Epoch 595/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0694 - accuracy:
1.0000
Epoch 596/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0693 - accuracy:
1.0000
Epoch 597/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0693 - accuracy:
1.0000

Epoch 598/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0693 - accuracy: 1.0000

Epoch 599/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0693 - accuracy: 1.0000

Epoch 600/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0692 - accuracy: 1.0000

Epoch 601/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0692 - accuracy: 1.0000

Epoch 602/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0692 - accuracy: 1.0000

Epoch 603/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0692 - accuracy: 1.0000

Epoch 604/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0691 - accuracy: 1.0000

Epoch 605/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0691 - accuracy: 1.0000

Epoch 606/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0691 - accuracy: 1.0000

Epoch 607/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0690 - accuracy: 1.0000

Epoch 608/5000
1/1 [=====] - 0s 0s/step - loss: 0.0690 - accuracy: 1.0000

Epoch 609/5000
1/1 [=====] - 0s 0s/step - loss: 0.0690 - accuracy: 1.0000

Epoch 610/5000
1/1 [=====] - 0s 5ms/step - loss: 0.0690 - accuracy: 1.0000

Epoch 611/5000
1/1 [=====] - 0s 0s/step - loss: 0.0689 - accuracy: 1.0000

Epoch 612/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0689 - accuracy: 1.0000

Epoch 613/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0689 - accuracy: 1.0000

Epoch 614/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0688 - accuracy:
1.0000
Epoch 615/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0688 - accuracy:
1.0000
Epoch 616/5000
1/1 [=====] - 0s 0s/step - loss: 0.0688 - accuracy:
1.0000
Epoch 617/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0688 - accuracy:
1.0000
Epoch 618/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0687 - accuracy:
1.0000
Epoch 619/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0687 - accuracy:
1.0000
Epoch 620/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0687 - accuracy:
1.0000
Epoch 621/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0686 - accuracy:
1.0000
Epoch 622/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0686 - accuracy:
1.0000
Epoch 623/5000
1/1 [=====] - 0s 0s/step - loss: 0.0686 - accuracy:
1.0000
Epoch 624/5000
1/1 [=====] - 0s 0s/step - loss: 0.0686 - accuracy:
1.0000
Epoch 625/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0685 - accuracy:
1.0000
Epoch 626/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0685 - accuracy:
1.0000
Epoch 627/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0685 - accuracy:
1.0000
Epoch 628/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0684 - accuracy:
1.0000
Epoch 629/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0684 - accuracy:
1.0000

Epoch 630/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0684 - accuracy:
1.0000

Epoch 631/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0684 - accuracy:
1.0000

Epoch 632/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0683 - accuracy:
1.0000

Epoch 633/5000
1/1 [=====] - 0s 5ms/step - loss: 0.0683 - accuracy:
1.0000

Epoch 634/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0683 - accuracy:
1.0000

Epoch 635/5000
1/1 [=====] - 0s 0s/step - loss: 0.0682 - accuracy:
1.0000

Epoch 636/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0682 - accuracy:
1.0000

Epoch 637/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0682 - accuracy:
1.0000

Epoch 638/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0682 - accuracy:
1.0000

Epoch 639/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0681 - accuracy:
1.0000

Epoch 640/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0681 - accuracy:
1.0000

Epoch 641/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0681 - accuracy:
1.0000

Epoch 642/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0681 - accuracy:
1.0000

Epoch 643/5000
1/1 [=====] - 0s 0s/step - loss: 0.0680 - accuracy:
1.0000

Epoch 644/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0680 - accuracy:
1.0000

Epoch 645/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0680 - accuracy:
1.0000

Epoch 646/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0679 - accuracy:
1.0000
Epoch 647/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0679 - accuracy:
1.0000
Epoch 648/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0679 - accuracy:
1.0000
Epoch 649/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0679 - accuracy:
1.0000
Epoch 650/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0678 - accuracy:
1.0000
Epoch 651/5000
1/1 [=====] - 0s 0s/step - loss: 0.0678 - accuracy:
1.0000
Epoch 652/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0678 - accuracy:
1.0000
Epoch 653/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0677 - accuracy:
1.0000
Epoch 654/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0677 - accuracy:
1.0000
Epoch 655/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0677 - accuracy:
1.0000
Epoch 656/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0677 - accuracy:
1.0000
Epoch 657/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0676 - accuracy:
1.0000
Epoch 658/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0676 - accuracy:
1.0000
Epoch 659/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0676 - accuracy:
1.0000
Epoch 660/5000
1/1 [=====] - 0s 0s/step - loss: 0.0676 - accuracy:
1.0000
Epoch 661/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0675 - accuracy:
1.0000

Epoch 662/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0675 - accuracy:
1.0000

Epoch 663/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0675 - accuracy:
1.0000

Epoch 664/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0675 - accuracy:
1.0000

Epoch 665/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0674 - accuracy:
1.0000

Epoch 666/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0674 - accuracy:
1.0000

Epoch 667/5000
1/1 [=====] - 0s 0s/step - loss: 0.0674 - accuracy:
1.0000

Epoch 668/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0673 - accuracy:
1.0000

Epoch 669/5000
1/1 [=====] - 0s 5ms/step - loss: 0.0673 - accuracy:
1.0000

Epoch 670/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0673 - accuracy:
1.0000

Epoch 671/5000
1/1 [=====] - 0s 0s/step - loss: 0.0673 - accuracy:
1.0000

Epoch 672/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0672 - accuracy:
1.0000

Epoch 673/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0672 - accuracy:
1.0000

Epoch 674/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0672 - accuracy:
1.0000

Epoch 675/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0671 - accuracy:
1.0000

Epoch 676/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0671 - accuracy:
1.0000

Epoch 677/5000
1/1 [=====] - 0s 0s/step - loss: 0.0671 - accuracy:
1.0000

Epoch 678/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0671 - accuracy:
1.0000
Epoch 679/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0670 - accuracy:
1.0000
Epoch 680/5000
1/1 [=====] - 0s 0s/step - loss: 0.0670 - accuracy:
1.0000
Epoch 681/5000
1/1 [=====] - 0s 0s/step - loss: 0.0670 - accuracy:
1.0000
Epoch 682/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0669 - accuracy:
1.0000
Epoch 683/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0669 - accuracy:
1.0000
Epoch 684/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0669 - accuracy:
1.0000
Epoch 685/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0669 - accuracy:
1.0000
Epoch 686/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0668 - accuracy:
1.0000
Epoch 687/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0668 - accuracy:
1.0000
Epoch 688/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0668 - accuracy:
1.0000
Epoch 689/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0668 - accuracy:
1.0000
Epoch 690/5000
1/1 [=====] - 0s 0s/step - loss: 0.0667 - accuracy:
1.0000
Epoch 691/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0667 - accuracy:
1.0000
Epoch 692/5000
1/1 [=====] - 0s 0s/step - loss: 0.0667 - accuracy:
1.0000
Epoch 693/5000
1/1 [=====] - 0s 0s/step - loss: 0.0666 - accuracy:
1.0000

Epoch 694/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0666 - accuracy:
1.0000

Epoch 695/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0666 - accuracy:
1.0000

Epoch 696/5000
1/1 [=====] - 0s 0s/step - loss: 0.0666 - accuracy:
1.0000

Epoch 697/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0665 - accuracy:
1.0000

Epoch 698/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0665 - accuracy:
1.0000

Epoch 699/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0665 - accuracy:
1.0000

Epoch 700/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0665 - accuracy:
1.0000

Epoch 701/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0664 - accuracy:
1.0000

Epoch 702/5000
1/1 [=====] - 0s 0s/step - loss: 0.0664 - accuracy:
1.0000

Epoch 703/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0664 - accuracy:
1.0000

Epoch 704/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0664 - accuracy:
1.0000

Epoch 705/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0663 - accuracy:
1.0000

Epoch 706/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0663 - accuracy:
1.0000

Epoch 707/5000
1/1 [=====] - 0s 3ms/step - loss: 0.0663 - accuracy:
1.0000

Epoch 708/5000
1/1 [=====] - 0s 0s/step - loss: 0.0662 - accuracy:
1.0000

Epoch 709/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0662 - accuracy:
1.0000

Epoch 710/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0662 - accuracy: 1.0000

Epoch 711/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0662 - accuracy: 1.0000

Epoch 712/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0662 - accuracy: 1.0000

Epoch 713/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0661 - accuracy: 1.0000

Epoch 714/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0661 - accuracy: 1.0000

Epoch 715/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0661 - accuracy: 1.0000

Epoch 716/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0660 - accuracy: 1.0000

Epoch 717/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0660 - accuracy: 1.0000

Epoch 718/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0660 - accuracy: 1.0000

Epoch 719/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0660 - accuracy: 1.0000

Epoch 720/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0659 - accuracy: 1.0000

Epoch 721/5000
1/1 [=====] - 0s 0s/step - loss: 0.0659 - accuracy: 1.0000

Epoch 722/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0659 - accuracy: 1.0000

Epoch 723/5000
1/1 [=====] - 0s 0s/step - loss: 0.0658 - accuracy: 1.0000

Epoch 724/5000
1/1 [=====] - 0s 23ms/step - loss: 0.0658 - accuracy: 1.0000

Epoch 725/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0658 - accuracy: 1.0000

Epoch 726/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0658 - accuracy:
1.0000
Epoch 727/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0658 - accuracy:
1.0000
Epoch 728/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0657 - accuracy:
1.0000
Epoch 729/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0657 - accuracy:
1.0000
Epoch 730/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0656 - accuracy:
1.0000
Epoch 731/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0656 - accuracy:
1.0000
Epoch 732/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0656 - accuracy:
1.0000
Epoch 733/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0656 - accuracy:
1.0000
Epoch 734/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0656 - accuracy:
1.0000
Epoch 735/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0655 - accuracy:
1.0000
Epoch 736/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0655 - accuracy:
1.0000
Epoch 737/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0654 - accuracy:
1.0000
Epoch 738/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0654 - accuracy:
1.0000
Epoch 739/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0654 - accuracy:
1.0000
Epoch 740/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0654 - accuracy:
1.0000
Epoch 741/5000
1/1 [=====] - 0s 0s/step - loss: 0.0654 - accuracy:
1.0000

Epoch 742/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0653 - accuracy:
1.0000

Epoch 743/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0653 - accuracy:
1.0000

Epoch 744/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0653 - accuracy:
1.0000

Epoch 745/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0652 - accuracy:
1.0000

Epoch 746/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0652 - accuracy:
1.0000

Epoch 747/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0652 - accuracy:
1.0000

Epoch 748/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0652 - accuracy:
1.0000

Epoch 749/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0652 - accuracy:
1.0000

Epoch 750/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0651 - accuracy:
1.0000

Epoch 751/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0651 - accuracy:
1.0000

Epoch 752/5000
1/1 [=====] - 0s 5ms/step - loss: 0.0651 - accuracy:
1.0000

Epoch 753/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0650 - accuracy:
1.0000

Epoch 754/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0650 - accuracy:
1.0000

Epoch 755/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0650 - accuracy:
1.0000

Epoch 756/5000
1/1 [=====] - 0s 0s/step - loss: 0.0650 - accuracy:
1.0000

Epoch 757/5000
1/1 [=====] - 0s 0s/step - loss: 0.0650 - accuracy:
1.0000

Epoch 758/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0649 - accuracy:
1.0000
Epoch 759/5000
1/1 [=====] - 0s 0s/step - loss: 0.0649 - accuracy:
1.0000
Epoch 760/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0649 - accuracy:
1.0000
Epoch 761/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0648 - accuracy:
1.0000
Epoch 762/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0648 - accuracy:
1.0000
Epoch 763/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0648 - accuracy:
1.0000
Epoch 764/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0648 - accuracy:
1.0000
Epoch 765/5000
1/1 [=====] - 0s 0s/step - loss: 0.0647 - accuracy:
1.0000
Epoch 766/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0647 - accuracy:
1.0000
Epoch 767/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0647 - accuracy:
1.0000
Epoch 768/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0647 - accuracy:
1.0000
Epoch 769/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0646 - accuracy:
1.0000
Epoch 770/5000
1/1 [=====] - 0s 0s/step - loss: 0.0646 - accuracy:
1.0000
Epoch 771/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0646 - accuracy:
1.0000
Epoch 772/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0645 - accuracy:
1.0000
Epoch 773/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0645 - accuracy:
1.0000

Epoch 774/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0645 - accuracy:
1.0000

Epoch 775/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0645 - accuracy:
1.0000

Epoch 776/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0645 - accuracy:
1.0000

Epoch 777/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0644 - accuracy:
1.0000

Epoch 778/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0644 - accuracy:
1.0000

Epoch 779/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0644 - accuracy:
1.0000

Epoch 780/5000
1/1 [=====] - 0s 0s/step - loss: 0.0643 - accuracy:
1.0000

Epoch 781/5000
1/1 [=====] - 0s 0s/step - loss: 0.0643 - accuracy:
1.0000

Epoch 782/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0643 - accuracy:
1.0000

Epoch 783/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0643 - accuracy:
1.0000

Epoch 784/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0643 - accuracy:
1.0000

Epoch 785/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0642 - accuracy:
1.0000

Epoch 786/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0642 - accuracy:
1.0000

Epoch 787/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0641 - accuracy:
1.0000

Epoch 788/5000
1/1 [=====] - 0s 0s/step - loss: 0.0641 - accuracy:
1.0000

Epoch 789/5000
1/1 [=====] - 0s 0s/step - loss: 0.0641 - accuracy:
1.0000

Epoch 790/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0641 - accuracy:
1.0000
Epoch 791/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0641 - accuracy:
1.0000
Epoch 792/5000
1/1 [=====] - 0s 0s/step - loss: 0.0640 - accuracy:
1.0000
Epoch 793/5000
1/1 [=====] - 0s 0s/step - loss: 0.0640 - accuracy:
1.0000
Epoch 794/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0640 - accuracy:
1.0000
Epoch 795/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0639 - accuracy:
1.0000
Epoch 796/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0639 - accuracy:
1.0000
Epoch 797/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0639 - accuracy:
1.0000
Epoch 798/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0639 - accuracy:
1.0000
Epoch 799/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0639 - accuracy:
1.0000
Epoch 800/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0638 - accuracy:
1.0000
Epoch 801/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0638 - accuracy:
1.0000
Epoch 802/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0638 - accuracy:
1.0000
Epoch 803/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0637 - accuracy:
1.0000
Epoch 804/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0637 - accuracy:
1.0000
Epoch 805/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0637 - accuracy:
1.0000

Epoch 806/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0637 - accuracy:
1.0000
Epoch 807/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0637 - accuracy:
1.0000
Epoch 808/5000
1/1 [=====] - 0s 0s/step - loss: 0.0636 - accuracy:
1.0000
Epoch 809/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0636 - accuracy:
1.0000
Epoch 810/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0636 - accuracy:
1.0000
Epoch 811/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0635 - accuracy:
1.0000
Epoch 812/5000
1/1 [=====] - 0s 5ms/step - loss: 0.0635 - accuracy:
1.0000
Epoch 813/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0635 - accuracy:
1.0000
Epoch 814/5000
1/1 [=====] - 0s 5ms/step - loss: 0.0635 - accuracy:
1.0000
Epoch 815/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0634 - accuracy:
1.0000
Epoch 816/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0634 - accuracy:
1.0000
Epoch 817/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0634 - accuracy:
1.0000
Epoch 818/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0634 - accuracy:
1.0000
Epoch 819/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0633 - accuracy:
1.0000
Epoch 820/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0633 - accuracy:
1.0000
Epoch 821/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0633 - accuracy:
1.0000

Epoch 822/5000
1/1 [=====] - 0s 0s/step - loss: 0.0633 - accuracy:
1.0000
Epoch 823/5000
1/1 [=====] - 0s 0s/step - loss: 0.0632 - accuracy:
1.0000
Epoch 824/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0632 - accuracy:
1.0000
Epoch 825/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0632 - accuracy:
1.0000
Epoch 826/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0631 - accuracy:
1.0000
Epoch 827/5000
1/1 [=====] - 0s 0s/step - loss: 0.0631 - accuracy:
1.0000
Epoch 828/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0631 - accuracy:
1.0000
Epoch 829/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0631 - accuracy:
1.0000
Epoch 830/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0631 - accuracy:
1.0000
Epoch 831/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0630 - accuracy:
1.0000
Epoch 832/5000
1/1 [=====] - 0s 0s/step - loss: 0.0630 - accuracy:
1.0000
Epoch 833/5000
1/1 [=====] - 0s 0s/step - loss: 0.0630 - accuracy:
1.0000
Epoch 834/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0629 - accuracy:
1.0000
Epoch 835/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0629 - accuracy:
1.0000
Epoch 836/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0629 - accuracy:
1.0000
Epoch 837/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0629 - accuracy:
1.0000

Epoch 838/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0629 - accuracy:
1.0000

Epoch 839/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0628 - accuracy:
1.0000

Epoch 840/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0628 - accuracy:
1.0000

Epoch 841/5000
1/1 [=====] - 0s 0s/step - loss: 0.0628 - accuracy:
1.0000

Epoch 842/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0627 - accuracy:
1.0000

Epoch 843/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0627 - accuracy:
1.0000

Epoch 844/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0627 - accuracy:
1.0000

Epoch 845/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0627 - accuracy:
1.0000

Epoch 846/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0627 - accuracy:
1.0000

Epoch 847/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0626 - accuracy:
1.0000

Epoch 848/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0626 - accuracy:
1.0000

Epoch 849/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0626 - accuracy:
1.0000

Epoch 850/5000
1/1 [=====] - 0s 0s/step - loss: 0.0625 - accuracy:
1.0000

Epoch 851/5000
1/1 [=====] - 0s 0s/step - loss: 0.0625 - accuracy:
1.0000

Epoch 852/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0625 - accuracy:
1.0000

Epoch 853/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0625 - accuracy:
1.0000

Epoch 854/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0625 - accuracy: 1.0000

Epoch 855/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0624 - accuracy: 1.0000

Epoch 856/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0624 - accuracy: 1.0000

Epoch 857/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0624 - accuracy: 1.0000

Epoch 858/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0623 - accuracy: 1.0000

Epoch 859/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0623 - accuracy: 1.0000

Epoch 860/5000
1/1 [=====] - 0s 0s/step - loss: 0.0623 - accuracy: 1.0000

Epoch 861/5000
1/1 [=====] - 0s 0s/step - loss: 0.0623 - accuracy: 1.0000

Epoch 862/5000
1/1 [=====] - 0s 5ms/step - loss: 0.0623 - accuracy: 1.0000

Epoch 863/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0622 - accuracy: 1.0000

Epoch 864/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0622 - accuracy: 1.0000

Epoch 865/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0622 - accuracy: 1.0000

Epoch 866/5000
1/1 [=====] - 0s 0s/step - loss: 0.0621 - accuracy: 1.0000

Epoch 867/5000
1/1 [=====] - 0s 1ms/step - loss: 0.0621 - accuracy: 1.0000

Epoch 868/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0621 - accuracy: 1.0000

Epoch 869/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0621 - accuracy: 1.0000

Epoch 870/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0621 - accuracy:
1.0000
Epoch 871/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0620 - accuracy:
1.0000
Epoch 872/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0620 - accuracy:
1.0000
Epoch 873/5000
1/1 [=====] - 0s 0s/step - loss: 0.0620 - accuracy:
1.0000
Epoch 874/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0619 - accuracy:
1.0000
Epoch 875/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0619 - accuracy:
1.0000
Epoch 876/5000
1/1 [=====] - 0s 0s/step - loss: 0.0619 - accuracy:
1.0000
Epoch 877/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0619 - accuracy:
1.0000
Epoch 878/5000
1/1 [=====] - 0s 3ms/step - loss: 0.0619 - accuracy:
1.0000
Epoch 879/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0618 - accuracy:
1.0000
Epoch 880/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0618 - accuracy:
1.0000
Epoch 881/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0618 - accuracy:
1.0000
Epoch 882/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0617 - accuracy:
1.0000
Epoch 883/5000
1/1 [=====] - 0s 0s/step - loss: 0.0617 - accuracy:
1.0000
Epoch 884/5000
1/1 [=====] - 0s 0s/step - loss: 0.0617 - accuracy:
1.0000
Epoch 885/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0617 - accuracy:
1.0000

Epoch 886/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0617 - accuracy:
1.0000
Epoch 887/5000
1/1 [=====] - 0s 0s/step - loss: 0.0616 - accuracy:
1.0000
Epoch 888/5000
1/1 [=====] - 0s 3ms/step - loss: 0.0616 - accuracy:
1.0000
Epoch 889/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0616 - accuracy:
1.0000
Epoch 890/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0615 - accuracy:
1.0000
Epoch 891/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0615 - accuracy:
1.0000
Epoch 892/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0615 - accuracy:
1.0000
Epoch 893/5000
1/1 [=====] - 0s 0s/step - loss: 0.0615 - accuracy:
1.0000
Epoch 894/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0615 - accuracy:
1.0000
Epoch 895/5000
1/1 [=====] - 0s 0s/step - loss: 0.0614 - accuracy:
1.0000
Epoch 896/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0614 - accuracy:
1.0000
Epoch 897/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0614 - accuracy:
1.0000
Epoch 898/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0613 - accuracy:
1.0000
Epoch 899/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0613 - accuracy:
1.0000
Epoch 900/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0613 - accuracy:
1.0000
Epoch 901/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0613 - accuracy:
1.0000

Epoch 902/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0613 - accuracy:
1.0000

Epoch 903/5000
1/1 [=====] - 0s 0s/step - loss: 0.0612 - accuracy:
1.0000

Epoch 904/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0612 - accuracy:
1.0000

Epoch 905/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0612 - accuracy:
1.0000

Epoch 906/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0611 - accuracy:
1.0000

Epoch 907/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0611 - accuracy:
1.0000

Epoch 908/5000
1/1 [=====] - 0s 0s/step - loss: 0.0611 - accuracy:
1.0000

Epoch 909/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0611 - accuracy:
1.0000

Epoch 910/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0611 - accuracy:
1.0000

Epoch 911/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0610 - accuracy:
1.0000

Epoch 912/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0610 - accuracy:
1.0000

Epoch 913/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0610 - accuracy:
1.0000

Epoch 914/5000
1/1 [=====] - 0s 0s/step - loss: 0.0610 - accuracy:
1.0000

Epoch 915/5000
1/1 [=====] - 0s 0s/step - loss: 0.0609 - accuracy:
1.0000

Epoch 916/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0609 - accuracy:
1.0000

Epoch 917/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0609 - accuracy:
1.0000

Epoch 918/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0609 - accuracy:
1.0000

Epoch 919/5000
1/1 [=====] - 0s 0s/step - loss: 0.0608 - accuracy:
1.0000

Epoch 920/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0608 - accuracy:
1.0000

Epoch 921/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0608 - accuracy:
1.0000

Epoch 922/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0608 - accuracy:
1.0000

Epoch 923/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0607 - accuracy:
1.0000

Epoch 924/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0607 - accuracy:
1.0000

Epoch 925/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0607 - accuracy:
1.0000

Epoch 926/5000
1/1 [=====] - 0s 5ms/step - loss: 0.0607 - accuracy:
1.0000

Epoch 927/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0606 - accuracy:
1.0000

Epoch 928/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0606 - accuracy:
1.0000

Epoch 929/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0606 - accuracy:
1.0000

Epoch 930/5000
1/1 [=====] - 0s 0s/step - loss: 0.0606 - accuracy:
1.0000

Epoch 931/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0605 - accuracy:
1.0000

Epoch 932/5000
1/1 [=====] - 0s 0s/step - loss: 0.0605 - accuracy:
1.0000

Epoch 933/5000
1/1 [=====] - 0s 0s/step - loss: 0.0605 - accuracy:
1.0000

Epoch 934/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0605 - accuracy:
1.0000
Epoch 935/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0605 - accuracy:
1.0000
Epoch 936/5000
1/1 [=====] - 0s 0s/step - loss: 0.0604 - accuracy:
1.0000
Epoch 937/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0604 - accuracy:
1.0000
Epoch 938/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0604 - accuracy:
1.0000
Epoch 939/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0603 - accuracy:
1.0000
Epoch 940/5000
1/1 [=====] - 0s 5ms/step - loss: 0.0603 - accuracy:
1.0000
Epoch 941/5000
1/1 [=====] - 0s 0s/step - loss: 0.0603 - accuracy:
1.0000
Epoch 942/5000
1/1 [=====] - 0s 0s/step - loss: 0.0603 - accuracy:
1.0000
Epoch 943/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0603 - accuracy:
1.0000
Epoch 944/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0602 - accuracy:
1.0000
Epoch 945/5000
1/1 [=====] - 0s 0s/step - loss: 0.0602 - accuracy:
1.0000
Epoch 946/5000
1/1 [=====] - 0s 0s/step - loss: 0.0602 - accuracy:
1.0000
Epoch 947/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0602 - accuracy:
1.0000
Epoch 948/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0601 - accuracy:
1.0000
Epoch 949/5000
1/1 [=====] - 0s 0s/step - loss: 0.0601 - accuracy:
1.0000

Epoch 950/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0601 - accuracy:
1.0000

Epoch 951/5000
1/1 [=====] - 0s 0s/step - loss: 0.0601 - accuracy:
1.0000

Epoch 952/5000
1/1 [=====] - 0s 0s/step - loss: 0.0600 - accuracy:
1.0000

Epoch 953/5000
1/1 [=====] - 0s 0s/step - loss: 0.0600 - accuracy:
1.0000

Epoch 954/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0600 - accuracy:
1.0000

Epoch 955/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0600 - accuracy:
1.0000

Epoch 956/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0599 - accuracy:
1.0000

Epoch 957/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0599 - accuracy:
1.0000

Epoch 958/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0599 - accuracy:
1.0000

Epoch 959/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0599 - accuracy:
1.0000

Epoch 960/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0599 - accuracy:
1.0000

Epoch 961/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0598 - accuracy:
1.0000

Epoch 962/5000
1/1 [=====] - 0s 0s/step - loss: 0.0598 - accuracy:
1.0000

Epoch 963/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0598 - accuracy:
1.0000

Epoch 964/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0597 - accuracy:
1.0000

Epoch 965/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0597 - accuracy:
1.0000

Epoch 966/5000
1/1 [=====] - 0s 0s/step - loss: 0.0597 - accuracy:
1.0000

Epoch 967/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0597 - accuracy:
1.0000

Epoch 968/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0597 - accuracy:
1.0000

Epoch 969/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0596 - accuracy:
1.0000

Epoch 970/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0596 - accuracy:
1.0000

Epoch 971/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0596 - accuracy:
1.0000

Epoch 972/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0595 - accuracy:
1.0000

Epoch 973/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0595 - accuracy:
1.0000

Epoch 974/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0595 - accuracy:
1.0000

Epoch 975/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0595 - accuracy:
1.0000

Epoch 976/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0595 - accuracy:
1.0000

Epoch 977/5000
1/1 [=====] - 0s 0s/step - loss: 0.0595 - accuracy:
1.0000

Epoch 978/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0594 - accuracy:
1.0000

Epoch 979/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0594 - accuracy:
1.0000

Epoch 980/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0594 - accuracy:
1.0000

Epoch 981/5000
1/1 [=====] - 0s 3ms/step - loss: 0.0593 - accuracy:
1.0000

Epoch 982/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0593 - accuracy:
1.0000
Epoch 983/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0593 - accuracy:
1.0000
Epoch 984/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0593 - accuracy:
1.0000
Epoch 985/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0593 - accuracy:
1.0000
Epoch 986/5000
1/1 [=====] - 0s 0s/step - loss: 0.0592 - accuracy:
1.0000
Epoch 987/5000
1/1 [=====] - 0s 0s/step - loss: 0.0592 - accuracy:
1.0000
Epoch 988/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0592 - accuracy:
1.0000
Epoch 989/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0591 - accuracy:
1.0000
Epoch 990/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0591 - accuracy:
1.0000
Epoch 991/5000
1/1 [=====] - 0s 0s/step - loss: 0.0591 - accuracy:
1.0000
Epoch 992/5000
1/1 [=====] - 0s 0s/step - loss: 0.0591 - accuracy:
1.0000
Epoch 993/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0591 - accuracy:
1.0000
Epoch 994/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0591 - accuracy:
1.0000
Epoch 995/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0590 - accuracy:
1.0000
Epoch 996/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0590 - accuracy:
1.0000
Epoch 997/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0590 - accuracy:
1.0000

Epoch 998/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0589 - accuracy:
1.0000

Epoch 999/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0589 - accuracy:
1.0000

Epoch 1000/5000
1/1 [=====] - 0s 0s/step - loss: 0.0589 - accuracy:
1.0000

Epoch 1001/5000
1/1 [=====] - 0s 5ms/step - loss: 0.0589 - accuracy:
1.0000

Epoch 1002/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0589 - accuracy:
1.0000

Epoch 1003/5000
1/1 [=====] - 0s 3ms/step - loss: 0.0588 - accuracy:
1.0000

Epoch 1004/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0588 - accuracy:
1.0000

Epoch 1005/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0588 - accuracy:
1.0000

Epoch 1006/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0587 - accuracy:
1.0000

Epoch 1007/5000
1/1 [=====] - 0s 0s/step - loss: 0.0587 - accuracy:
1.0000

Epoch 1008/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0587 - accuracy:
1.0000

Epoch 1009/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0587 - accuracy:
1.0000

Epoch 1010/5000
1/1 [=====] - 0s 0s/step - loss: 0.0587 - accuracy:
1.0000

Epoch 1011/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0586 - accuracy:
1.0000

Epoch 1012/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0586 - accuracy:
1.0000

Epoch 1013/5000
1/1 [=====] - 0s 0s/step - loss: 0.0586 - accuracy:
1.0000

Epoch 1014/5000
1/1 [=====] - 0s 0s/step - loss: 0.0586 - accuracy:
1.0000

Epoch 1015/5000
1/1 [=====] - 0s 5ms/step - loss: 0.0585 - accuracy:
1.0000

Epoch 1016/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0585 - accuracy:
1.0000

Epoch 1017/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0585 - accuracy:
1.0000

Epoch 1018/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0585 - accuracy:
1.0000

Epoch 1019/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0584 - accuracy:
1.0000

Epoch 1020/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0584 - accuracy:
1.0000

Epoch 1021/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0584 - accuracy:
1.0000

Epoch 1022/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0584 - accuracy:
1.0000

Epoch 1023/5000
1/1 [=====] - 0s 5ms/step - loss: 0.0584 - accuracy:
1.0000

Epoch 1024/5000
1/1 [=====] - 0s 0s/step - loss: 0.0583 - accuracy:
1.0000

Epoch 1025/5000
1/1 [=====] - 0s 0s/step - loss: 0.0583 - accuracy:
1.0000

Epoch 1026/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0583 - accuracy:
1.0000

Epoch 1027/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0583 - accuracy:
1.0000

Epoch 1028/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0582 - accuracy:
1.0000

Epoch 1029/5000
1/1 [=====] - 0s 0s/step - loss: 0.0582 - accuracy:
1.0000

Epoch 1030/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0582 - accuracy:
1.0000

Epoch 1031/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0582 - accuracy:
1.0000

Epoch 1032/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0582 - accuracy:
1.0000

Epoch 1033/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0581 - accuracy:
1.0000

Epoch 1034/5000
1/1 [=====] - 0s 0s/step - loss: 0.0581 - accuracy:
1.0000

Epoch 1035/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0581 - accuracy:
1.0000

Epoch 1036/5000
1/1 [=====] - 0s 0s/step - loss: 0.0581 - accuracy:
1.0000

Epoch 1037/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0580 - accuracy:
1.0000

Epoch 1038/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0580 - accuracy:
1.0000

Epoch 1039/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0580 - accuracy:
1.0000

Epoch 1040/5000
1/1 [=====] - 0s 0s/step - loss: 0.0580 - accuracy:
1.0000

Epoch 1041/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0580 - accuracy:
1.0000

Epoch 1042/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0579 - accuracy:
1.0000

Epoch 1043/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0579 - accuracy:
1.0000

Epoch 1044/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0579 - accuracy:
1.0000

Epoch 1045/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0578 - accuracy:
1.0000

Epoch 1046/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0578 - accuracy:
1.0000
Epoch 1047/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0578 - accuracy:
1.0000
Epoch 1048/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0578 - accuracy:
1.0000
Epoch 1049/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0578 - accuracy:
1.0000
Epoch 1050/5000
1/1 [=====] - 0s 0s/step - loss: 0.0577 - accuracy:
1.0000
Epoch 1051/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0577 - accuracy:
1.0000
Epoch 1052/5000
1/1 [=====] - 0s 0s/step - loss: 0.0577 - accuracy:
1.0000
Epoch 1053/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0577 - accuracy:
1.0000
Epoch 1054/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0576 - accuracy:
1.0000
Epoch 1055/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0576 - accuracy:
1.0000
Epoch 1056/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0576 - accuracy:
1.0000
Epoch 1057/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0576 - accuracy:
1.0000
Epoch 1058/5000
1/1 [=====] - 0s 0s/step - loss: 0.0576 - accuracy:
1.0000
Epoch 1059/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0575 - accuracy:
1.0000
Epoch 1060/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0575 - accuracy:
1.0000
Epoch 1061/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0575 - accuracy:
1.0000

Epoch 1062/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0575 - accuracy:
1.0000

Epoch 1063/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0574 - accuracy:
1.0000

Epoch 1064/5000
1/1 [=====] - 0s 0s/step - loss: 0.0574 - accuracy:
1.0000

Epoch 1065/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0574 - accuracy:
1.0000

Epoch 1066/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0574 - accuracy:
1.0000

Epoch 1067/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0574 - accuracy:
1.0000

Epoch 1068/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0573 - accuracy:
1.0000

Epoch 1069/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0573 - accuracy:
1.0000

Epoch 1070/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0573 - accuracy:
1.0000

Epoch 1071/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0573 - accuracy:
1.0000

Epoch 1072/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0572 - accuracy:
1.0000

Epoch 1073/5000
1/1 [=====] - 0s 0s/step - loss: 0.0572 - accuracy:
1.0000

Epoch 1074/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0572 - accuracy:
1.0000

Epoch 1075/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0572 - accuracy:
1.0000

Epoch 1076/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0571 - accuracy:
1.0000

Epoch 1077/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0571 - accuracy:
1.0000

Epoch 1078/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0571 - accuracy:
1.0000

Epoch 1079/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0571 - accuracy:
1.0000

Epoch 1080/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0570 - accuracy:
1.0000

Epoch 1081/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0570 - accuracy:
1.0000

Epoch 1082/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0570 - accuracy:
1.0000

Epoch 1083/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0570 - accuracy:
1.0000

Epoch 1084/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0570 - accuracy:
1.0000

Epoch 1085/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0569 - accuracy:
1.0000

Epoch 1086/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0569 - accuracy:
1.0000

Epoch 1087/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0569 - accuracy:
1.0000

Epoch 1088/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0569 - accuracy:
1.0000

Epoch 1089/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0568 - accuracy:
1.0000

Epoch 1090/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0568 - accuracy:
1.0000

Epoch 1091/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0568 - accuracy:
1.0000

Epoch 1092/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0568 - accuracy:
1.0000

Epoch 1093/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0567 - accuracy:
1.0000

Epoch 1094/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0567 - accuracy:
1.0000
Epoch 1095/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0567 - accuracy:
1.0000
Epoch 1096/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0567 - accuracy:
1.0000
Epoch 1097/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0567 - accuracy:
1.0000
Epoch 1098/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0566 - accuracy:
1.0000
Epoch 1099/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0566 - accuracy:
1.0000
Epoch 1100/5000
1/1 [=====] - 0s 0s/step - loss: 0.0566 - accuracy:
1.0000
Epoch 1101/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0566 - accuracy:
1.0000
Epoch 1102/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0566 - accuracy:
1.0000
Epoch 1103/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0565 - accuracy:
1.0000
Epoch 1104/5000
1/1 [=====] - 0s 0s/step - loss: 0.0565 - accuracy:
1.0000
Epoch 1105/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0565 - accuracy:
1.0000
Epoch 1106/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0565 - accuracy:
1.0000
Epoch 1107/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0564 - accuracy:
1.0000
Epoch 1108/5000
1/1 [=====] - 0s 0s/step - loss: 0.0564 - accuracy:
1.0000
Epoch 1109/5000
1/1 [=====] - 0s 0s/step - loss: 0.0564 - accuracy:
1.0000

Epoch 1110/5000
1/1 [=====] - 0s 24ms/step - loss: 0.0564 - accuracy:
1.0000
Epoch 1111/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0564 - accuracy:
1.0000
Epoch 1112/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0563 - accuracy:
1.0000
Epoch 1113/5000
1/1 [=====] - 0s 0s/step - loss: 0.0563 - accuracy:
1.0000
Epoch 1114/5000
1/1 [=====] - 0s 0s/step - loss: 0.0563 - accuracy:
1.0000
Epoch 1115/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0563 - accuracy:
1.0000
Epoch 1116/5000
1/1 [=====] - 0s 3ms/step - loss: 0.0563 - accuracy:
1.0000
Epoch 1117/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0562 - accuracy:
1.0000
Epoch 1118/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0562 - accuracy:
1.0000
Epoch 1119/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0562 - accuracy:
1.0000
Epoch 1120/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0561 - accuracy:
1.0000
Epoch 1121/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0561 - accuracy:
1.0000
Epoch 1122/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0561 - accuracy:
1.0000
Epoch 1123/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0561 - accuracy:
1.0000
Epoch 1124/5000
1/1 [=====] - 0s 0s/step - loss: 0.0561 - accuracy:
1.0000
Epoch 1125/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0561 - accuracy:
1.0000

Epoch 1126/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0560 - accuracy:
1.0000

Epoch 1127/5000
1/1 [=====] - 0s 0s/step - loss: 0.0560 - accuracy:
1.0000

Epoch 1128/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0560 - accuracy:
1.0000

Epoch 1129/5000
1/1 [=====] - 0s 5ms/step - loss: 0.0560 - accuracy:
1.0000

Epoch 1130/5000
1/1 [=====] - 0s 45ms/step - loss: 0.0559 - accuracy:
1.0000

Epoch 1131/5000
1/1 [=====] - 0s 0s/step - loss: 0.0559 - accuracy:
1.0000

Epoch 1132/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0559 - accuracy:
1.0000

Epoch 1133/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0559 - accuracy:
1.0000

Epoch 1134/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0558 - accuracy:
1.0000

Epoch 1135/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0558 - accuracy:
1.0000

Epoch 1136/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0558 - accuracy:
1.0000

Epoch 1137/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0558 - accuracy:
1.0000

Epoch 1138/5000
1/1 [=====] - 0s 0s/step - loss: 0.0557 - accuracy:
1.0000

Epoch 1139/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0557 - accuracy:
1.0000

Epoch 1140/5000
1/1 [=====] - 0s 0s/step - loss: 0.0557 - accuracy:
1.0000

Epoch 1141/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0557 - accuracy:
1.0000

Epoch 1142/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0557 - accuracy:
1.0000

Epoch 1143/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0556 - accuracy:
1.0000

Epoch 1144/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0556 - accuracy:
1.0000

Epoch 1145/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0556 - accuracy:
1.0000

Epoch 1146/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0556 - accuracy:
1.0000

Epoch 1147/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0556 - accuracy:
1.0000

Epoch 1148/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0555 - accuracy:
1.0000

Epoch 1149/5000
1/1 [=====] - 0s 0s/step - loss: 0.0555 - accuracy:
1.0000

Epoch 1150/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0555 - accuracy:
1.0000

Epoch 1151/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0555 - accuracy:
1.0000

Epoch 1152/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0554 - accuracy:
1.0000

Epoch 1153/5000
1/1 [=====] - 0s 23ms/step - loss: 0.0554 - accuracy:
1.0000

Epoch 1154/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0554 - accuracy:
1.0000

Epoch 1155/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0554 - accuracy:
1.0000

Epoch 1156/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0554 - accuracy:
1.0000

Epoch 1157/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0553 - accuracy:
1.0000

Epoch 1158/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0553 - accuracy:
1.0000

Epoch 1159/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0553 - accuracy:
1.0000

Epoch 1160/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0553 - accuracy:
1.0000

Epoch 1161/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0553 - accuracy:
1.0000

Epoch 1162/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0552 - accuracy:
1.0000

Epoch 1163/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0552 - accuracy:
1.0000

Epoch 1164/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0552 - accuracy:
1.0000

Epoch 1165/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0552 - accuracy:
1.0000

Epoch 1166/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0552 - accuracy:
1.0000

Epoch 1167/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0551 - accuracy:
1.0000

Epoch 1168/5000
1/1 [=====] - 0s 25ms/step - loss: 0.0551 - accuracy:
1.0000

Epoch 1169/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0551 - accuracy:
1.0000

Epoch 1170/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0551 - accuracy:
1.0000

Epoch 1171/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0550 - accuracy:
1.0000

Epoch 1172/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0550 - accuracy:
1.0000

Epoch 1173/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0550 - accuracy:
1.0000

Epoch 1174/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0550 - accuracy:
1.0000
Epoch 1175/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0550 - accuracy:
1.0000
Epoch 1176/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0549 - accuracy:
1.0000
Epoch 1177/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0549 - accuracy:
1.0000
Epoch 1178/5000
1/1 [=====] - 0s 0s/step - loss: 0.0549 - accuracy:
1.0000
Epoch 1179/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0549 - accuracy:
1.0000
Epoch 1180/5000
1/1 [=====] - 0s 0s/step - loss: 0.0548 - accuracy:
1.0000
Epoch 1181/5000
1/1 [=====] - 0s 0s/step - loss: 0.0548 - accuracy:
1.0000
Epoch 1182/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0548 - accuracy:
1.0000
Epoch 1183/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0548 - accuracy:
1.0000
Epoch 1184/5000
1/1 [=====] - 0s 0s/step - loss: 0.0547 - accuracy:
1.0000
Epoch 1185/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0547 - accuracy:
1.0000
Epoch 1186/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0547 - accuracy:
1.0000
Epoch 1187/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0547 - accuracy:
1.0000
Epoch 1188/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0547 - accuracy:
1.0000
Epoch 1189/5000
1/1 [=====] - 0s 0s/step - loss: 0.0546 - accuracy:
1.0000

Epoch 1190/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0546 - accuracy:
1.0000
Epoch 1191/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0546 - accuracy:
1.0000
Epoch 1192/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0546 - accuracy:
1.0000
Epoch 1193/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0546 - accuracy:
1.0000
Epoch 1194/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0545 - accuracy:
1.0000
Epoch 1195/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0545 - accuracy:
1.0000
Epoch 1196/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0545 - accuracy:
1.0000
Epoch 1197/5000
1/1 [=====] - 0s 0s/step - loss: 0.0545 - accuracy:
1.0000
Epoch 1198/5000
1/1 [=====] - 0s 0s/step - loss: 0.0545 - accuracy:
1.0000
Epoch 1199/5000
1/1 [=====] - 0s 0s/step - loss: 0.0544 - accuracy:
1.0000
Epoch 1200/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0544 - accuracy:
1.0000
Epoch 1201/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0544 - accuracy:
1.0000
Epoch 1202/5000
1/1 [=====] - 0s 0s/step - loss: 0.0544 - accuracy:
1.0000
Epoch 1203/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0543 - accuracy:
1.0000
Epoch 1204/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0543 - accuracy:
1.0000
Epoch 1205/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0543 - accuracy:
1.0000

Epoch 1206/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0543 - accuracy:
1.0000

Epoch 1207/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0543 - accuracy:
1.0000

Epoch 1208/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0542 - accuracy:
1.0000

Epoch 1209/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0542 - accuracy:
1.0000

Epoch 1210/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0542 - accuracy:
1.0000

Epoch 1211/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0542 - accuracy:
1.0000

Epoch 1212/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0542 - accuracy:
1.0000

Epoch 1213/5000
1/1 [=====] - 0s 0s/step - loss: 0.0541 - accuracy:
1.0000

Epoch 1214/5000
1/1 [=====] - 0s 0s/step - loss: 0.0541 - accuracy:
1.0000

Epoch 1215/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0541 - accuracy:
1.0000

Epoch 1216/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0541 - accuracy:
1.0000

Epoch 1217/5000
1/1 [=====] - 0s 0s/step - loss: 0.0540 - accuracy:
1.0000

Epoch 1218/5000
1/1 [=====] - 0s 0s/step - loss: 0.0540 - accuracy:
1.0000

Epoch 1219/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0540 - accuracy:
1.0000

Epoch 1220/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0540 - accuracy:
1.0000

Epoch 1221/5000
1/1 [=====] - 0s 0s/step - loss: 0.0540 - accuracy:
1.0000

Epoch 1222/5000
1/1 [=====] - 0s 0s/step - loss: 0.0539 - accuracy:
1.0000

Epoch 1223/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0539 - accuracy:
1.0000

Epoch 1224/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0539 - accuracy:
1.0000

Epoch 1225/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0539 - accuracy:
1.0000

Epoch 1226/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0538 - accuracy:
1.0000

Epoch 1227/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0538 - accuracy:
1.0000

Epoch 1228/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0538 - accuracy:
1.0000

Epoch 1229/5000
1/1 [=====] - 0s 0s/step - loss: 0.0538 - accuracy:
1.0000

Epoch 1230/5000
1/1 [=====] - 0s 0s/step - loss: 0.0538 - accuracy:
1.0000

Epoch 1231/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0537 - accuracy:
1.0000

Epoch 1232/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0537 - accuracy:
1.0000

Epoch 1233/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0537 - accuracy:
1.0000

Epoch 1234/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0537 - accuracy:
1.0000

Epoch 1235/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0537 - accuracy:
1.0000

Epoch 1236/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0536 - accuracy:
1.0000

Epoch 1237/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0536 - accuracy:
1.0000

Epoch 1238/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0536 - accuracy:
1.0000

Epoch 1239/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0536 - accuracy:
1.0000

Epoch 1240/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0536 - accuracy:
1.0000

Epoch 1241/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0535 - accuracy:
1.0000

Epoch 1242/5000
1/1 [=====] - 0s 0s/step - loss: 0.0535 - accuracy:
1.0000

Epoch 1243/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0535 - accuracy:
1.0000

Epoch 1244/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0535 - accuracy:
1.0000

Epoch 1245/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0535 - accuracy:
1.0000

Epoch 1246/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0534 - accuracy:
1.0000

Epoch 1247/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0534 - accuracy:
1.0000

Epoch 1248/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0534 - accuracy:
1.0000

Epoch 1249/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0534 - accuracy:
1.0000

Epoch 1250/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0534 - accuracy:
1.0000

Epoch 1251/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0533 - accuracy:
1.0000

Epoch 1252/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0533 - accuracy:
1.0000

Epoch 1253/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0533 - accuracy:
1.0000

Epoch 1254/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0533 - accuracy:
1.0000

Epoch 1255/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0532 - accuracy:
1.0000

Epoch 1256/5000
1/1 [=====] - 0s 0s/step - loss: 0.0532 - accuracy:
1.0000

Epoch 1257/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0532 - accuracy:
1.0000

Epoch 1258/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0532 - accuracy:
1.0000

Epoch 1259/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0532 - accuracy:
1.0000

Epoch 1260/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0531 - accuracy:
1.0000

Epoch 1261/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0531 - accuracy:
1.0000

Epoch 1262/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0531 - accuracy:
1.0000

Epoch 1263/5000
1/1 [=====] - 0s 0s/step - loss: 0.0531 - accuracy:
1.0000

Epoch 1264/5000
1/1 [=====] - 0s 0s/step - loss: 0.0531 - accuracy:
1.0000

Epoch 1265/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0530 - accuracy:
1.0000

Epoch 1266/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0530 - accuracy:
1.0000

Epoch 1267/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0530 - accuracy:
1.0000

Epoch 1268/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0530 - accuracy:
1.0000

Epoch 1269/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0530 - accuracy:
1.0000

Epoch 1270/5000
1/1 [=====] - 0s 0s/step - loss: 0.0529 - accuracy:
1.0000

Epoch 1271/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0529 - accuracy:
1.0000

Epoch 1272/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0529 - accuracy:
1.0000

Epoch 1273/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0529 - accuracy:
1.0000

Epoch 1274/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0528 - accuracy:
1.0000

Epoch 1275/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0528 - accuracy:
1.0000

Epoch 1276/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0528 - accuracy:
1.0000

Epoch 1277/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0528 - accuracy:
1.0000

Epoch 1278/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0528 - accuracy:
1.0000

Epoch 1279/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0528 - accuracy:
1.0000

Epoch 1280/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0527 - accuracy:
1.0000

Epoch 1281/5000
1/1 [=====] - 0s 0s/step - loss: 0.0527 - accuracy:
1.0000

Epoch 1282/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0527 - accuracy:
1.0000

Epoch 1283/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0527 - accuracy:
1.0000

Epoch 1284/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0526 - accuracy:
1.0000

Epoch 1285/5000
1/1 [=====] - 0s 5ms/step - loss: 0.0526 - accuracy:
1.0000

Epoch 1286/5000
1/1 [=====] - 0s 0s/step - loss: 0.0526 - accuracy:
1.0000

Epoch 1287/5000
1/1 [=====] - 0s 0s/step - loss: 0.0526 - accuracy:
1.0000

Epoch 1288/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0526 - accuracy:
1.0000

Epoch 1289/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0525 - accuracy:
1.0000

Epoch 1290/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0525 - accuracy:
1.0000

Epoch 1291/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0525 - accuracy:
1.0000

Epoch 1292/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0525 - accuracy:
1.0000

Epoch 1293/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0524 - accuracy:
1.0000

Epoch 1294/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0524 - accuracy:
1.0000

Epoch 1295/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0524 - accuracy:
1.0000

Epoch 1296/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0524 - accuracy:
1.0000

Epoch 1297/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0524 - accuracy:
1.0000

Epoch 1298/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0524 - accuracy:
1.0000

Epoch 1299/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0523 - accuracy:
1.0000

Epoch 1300/5000
1/1 [=====] - 0s 0s/step - loss: 0.0523 - accuracy:
1.0000

Epoch 1301/5000
1/1 [=====] - 0s 0s/step - loss: 0.0523 - accuracy:
1.0000

Epoch 1302/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0523 - accuracy:
1.0000

Epoch 1303/5000
1/1 [=====] - 0s 0s/step - loss: 0.0523 - accuracy:
1.0000

Epoch 1304/5000
1/1 [=====] - 0s 0s/step - loss: 0.0522 - accuracy:
1.0000

Epoch 1305/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0522 - accuracy:
1.0000

Epoch 1306/5000
1/1 [=====] - 0s 3ms/step - loss: 0.0522 - accuracy:
1.0000

Epoch 1307/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0522 - accuracy:
1.0000

Epoch 1308/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0522 - accuracy:
1.0000

Epoch 1309/5000
1/1 [=====] - 0s 0s/step - loss: 0.0521 - accuracy:
1.0000

Epoch 1310/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0521 - accuracy:
1.0000

Epoch 1311/5000
1/1 [=====] - 0s 0s/step - loss: 0.0521 - accuracy:
1.0000

Epoch 1312/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0521 - accuracy:
1.0000

Epoch 1313/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0521 - accuracy:
1.0000

Epoch 1314/5000
1/1 [=====] - 0s 0s/step - loss: 0.0520 - accuracy:
1.0000

Epoch 1315/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0520 - accuracy:
1.0000

Epoch 1316/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0520 - accuracy:
1.0000

Epoch 1317/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0520 - accuracy:
1.0000

Epoch 1318/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0519 - accuracy:
1.0000

Epoch 1319/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0519 - accuracy:
1.0000

Epoch 1320/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0519 - accuracy:
1.0000

Epoch 1321/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0519 - accuracy:
1.0000

Epoch 1322/5000
1/1 [=====] - 0s 0s/step - loss: 0.0519 - accuracy:
1.0000

Epoch 1323/5000
1/1 [=====] - 0s 3ms/step - loss: 0.0518 - accuracy:
1.0000

Epoch 1324/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0518 - accuracy:
1.0000

Epoch 1325/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0518 - accuracy:
1.0000

Epoch 1326/5000
1/1 [=====] - 0s 0s/step - loss: 0.0518 - accuracy:
1.0000

Epoch 1327/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0518 - accuracy:
1.0000

Epoch 1328/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0517 - accuracy:
1.0000

Epoch 1329/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0517 - accuracy:
1.0000

Epoch 1330/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0517 - accuracy:
1.0000

Epoch 1331/5000
1/1 [=====] - 0s 5ms/step - loss: 0.0517 - accuracy:
1.0000

Epoch 1332/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0517 - accuracy:
1.0000

Epoch 1333/5000
1/1 [=====] - 0s 3ms/step - loss: 0.0516 - accuracy:
1.0000

Epoch 1334/5000
1/1 [=====] - 0s 5ms/step - loss: 0.0516 - accuracy:
1.0000

Epoch 1335/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0516 - accuracy:
1.0000

Epoch 1336/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0516 - accuracy:
1.0000

Epoch 1337/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0516 - accuracy:
1.0000

Epoch 1338/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0515 - accuracy:
1.0000

Epoch 1339/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0515 - accuracy:
1.0000

Epoch 1340/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0515 - accuracy:
1.0000

Epoch 1341/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0515 - accuracy:
1.0000

Epoch 1342/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0515 - accuracy:
1.0000

Epoch 1343/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0514 - accuracy:
1.0000

Epoch 1344/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0514 - accuracy:
1.0000

Epoch 1345/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0514 - accuracy:
1.0000

Epoch 1346/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0514 - accuracy:
1.0000

Epoch 1347/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0514 - accuracy:
1.0000

Epoch 1348/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0513 - accuracy:
1.0000

Epoch 1349/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0513 - accuracy:
1.0000

Epoch 1350/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0513 - accuracy:
1.0000

Epoch 1351/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0513 - accuracy:
1.0000

Epoch 1352/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0512 - accuracy:
1.0000

Epoch 1353/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0512 - accuracy:
1.0000

Epoch 1354/5000
1/1 [=====] - 0s 0s/step - loss: 0.0512 - accuracy:
1.0000

Epoch 1355/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0512 - accuracy:
1.0000

Epoch 1356/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0512 - accuracy:
1.0000

Epoch 1357/5000
1/1 [=====] - 0s 0s/step - loss: 0.0512 - accuracy:
1.0000

Epoch 1358/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0511 - accuracy:
1.0000

Epoch 1359/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0511 - accuracy:
1.0000

Epoch 1360/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0511 - accuracy:
1.0000

Epoch 1361/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0511 - accuracy:
1.0000

Epoch 1362/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0511 - accuracy:
1.0000

Epoch 1363/5000
1/1 [=====] - 0s 0s/step - loss: 0.0510 - accuracy:
1.0000

Epoch 1364/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0510 - accuracy:
1.0000

Epoch 1365/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0510 - accuracy:
1.0000

Epoch 1366/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0510 - accuracy:
1.0000
Epoch 1367/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0510 - accuracy:
1.0000
Epoch 1368/5000
1/1 [=====] - 0s 0s/step - loss: 0.0509 - accuracy:
1.0000
Epoch 1369/5000
1/1 [=====] - 0s 0s/step - loss: 0.0509 - accuracy:
1.0000
Epoch 1370/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0509 - accuracy:
1.0000
Epoch 1371/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0509 - accuracy:
1.0000
Epoch 1372/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0509 - accuracy:
1.0000
Epoch 1373/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0509 - accuracy:
1.0000
Epoch 1374/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0508 - accuracy:
1.0000
Epoch 1375/5000
1/1 [=====] - 0s 0s/step - loss: 0.0508 - accuracy:
1.0000
Epoch 1376/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0508 - accuracy:
1.0000
Epoch 1377/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0507 - accuracy:
1.0000
Epoch 1378/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0507 - accuracy:
1.0000
Epoch 1379/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0507 - accuracy:
1.0000
Epoch 1380/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0507 - accuracy:
1.0000
Epoch 1381/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0507 - accuracy:
1.0000

Epoch 1382/5000
1/1 [=====] - 0s 0s/step - loss: 0.0507 - accuracy:
1.0000

Epoch 1383/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0506 - accuracy:
1.0000

Epoch 1384/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0506 - accuracy:
1.0000

Epoch 1385/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0506 - accuracy:
1.0000

Epoch 1386/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0506 - accuracy:
1.0000

Epoch 1387/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0506 - accuracy:
1.0000

Epoch 1388/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0505 - accuracy:
1.0000

Epoch 1389/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0505 - accuracy:
1.0000

Epoch 1390/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0505 - accuracy:
1.0000

Epoch 1391/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0505 - accuracy:
1.0000

Epoch 1392/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0505 - accuracy:
1.0000

Epoch 1393/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0504 - accuracy:
1.0000

Epoch 1394/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0504 - accuracy:
1.0000

Epoch 1395/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0504 - accuracy:
1.0000

Epoch 1396/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0504 - accuracy:
1.0000

Epoch 1397/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0504 - accuracy:
1.0000

Epoch 1398/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0504 - accuracy:
1.0000
Epoch 1399/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0503 - accuracy:
1.0000
Epoch 1400/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0503 - accuracy:
1.0000
Epoch 1401/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0503 - accuracy:
1.0000
Epoch 1402/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0503 - accuracy:
1.0000
Epoch 1403/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0502 - accuracy:
1.0000
Epoch 1404/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0502 - accuracy:
1.0000
Epoch 1405/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0502 - accuracy:
1.0000
Epoch 1406/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0502 - accuracy:
1.0000
Epoch 1407/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0502 - accuracy:
1.0000
Epoch 1408/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0502 - accuracy:
1.0000
Epoch 1409/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0501 - accuracy:
1.0000
Epoch 1410/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0501 - accuracy:
1.0000
Epoch 1411/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0501 - accuracy:
1.0000
Epoch 1412/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0501 - accuracy:
1.0000
Epoch 1413/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0501 - accuracy:
1.0000

Epoch 1414/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0500 - accuracy:
1.0000

Epoch 1415/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0500 - accuracy:
1.0000

Epoch 1416/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0500 - accuracy:
1.0000

Epoch 1417/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0500 - accuracy:
1.0000

Epoch 1418/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0500 - accuracy:
1.0000

Epoch 1419/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0499 - accuracy:
1.0000

Epoch 1420/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0499 - accuracy:
1.0000

Epoch 1421/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0499 - accuracy:
1.0000

Epoch 1422/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0499 - accuracy:
1.0000

Epoch 1423/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0499 - accuracy:
1.0000

Epoch 1424/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0499 - accuracy:
1.0000

Epoch 1425/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0498 - accuracy:
1.0000

Epoch 1426/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0498 - accuracy:
1.0000

Epoch 1427/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0498 - accuracy:
1.0000

Epoch 1428/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0497 - accuracy:
1.0000

Epoch 1429/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0497 - accuracy:
1.0000

Epoch 1430/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0497 - accuracy:
1.0000

Epoch 1431/5000
1/1 [=====] - 0s 0s/step - loss: 0.0497 - accuracy:
1.0000

Epoch 1432/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0497 - accuracy:
1.0000

Epoch 1433/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0497 - accuracy:
1.0000

Epoch 1434/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0497 - accuracy:
1.0000

Epoch 1435/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0496 - accuracy:
1.0000

Epoch 1436/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0496 - accuracy:
1.0000

Epoch 1437/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0496 - accuracy:
1.0000

Epoch 1438/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0496 - accuracy:
1.0000

Epoch 1439/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0496 - accuracy:
1.0000

Epoch 1440/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0495 - accuracy:
1.0000

Epoch 1441/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0495 - accuracy:
1.0000

Epoch 1442/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0495 - accuracy:
1.0000

Epoch 1443/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0495 - accuracy:
1.0000

Epoch 1444/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0495 - accuracy:
1.0000

Epoch 1445/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0494 - accuracy:
1.0000

Epoch 1446/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0494 - accuracy:
1.0000
Epoch 1447/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0494 - accuracy:
1.0000
Epoch 1448/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0494 - accuracy:
1.0000
Epoch 1449/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0494 - accuracy:
1.0000
Epoch 1450/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0494 - accuracy:
1.0000
Epoch 1451/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0493 - accuracy:
1.0000
Epoch 1452/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0493 - accuracy:
1.0000
Epoch 1453/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0493 - accuracy:
1.0000
Epoch 1454/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0493 - accuracy:
1.0000
Epoch 1455/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0492 - accuracy:
1.0000
Epoch 1456/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0492 - accuracy:
1.0000
Epoch 1457/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0492 - accuracy:
1.0000
Epoch 1458/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0492 - accuracy:
1.0000
Epoch 1459/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0492 - accuracy:
1.0000
Epoch 1460/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0492 - accuracy:
1.0000
Epoch 1461/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0491 - accuracy:
1.0000

Epoch 1462/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0491 - accuracy:
1.0000

Epoch 1463/5000
1/1 [=====] - 0s 0s/step - loss: 0.0491 - accuracy:
1.0000

Epoch 1464/5000
1/1 [=====] - 0s 0s/step - loss: 0.0491 - accuracy:
1.0000

Epoch 1465/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0491 - accuracy:
1.0000

Epoch 1466/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0490 - accuracy:
1.0000

Epoch 1467/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0490 - accuracy:
1.0000

Epoch 1468/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0490 - accuracy:
1.0000

Epoch 1469/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0490 - accuracy:
1.0000

Epoch 1470/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0490 - accuracy:
1.0000

Epoch 1471/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0489 - accuracy:
1.0000

Epoch 1472/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0489 - accuracy:
1.0000

Epoch 1473/5000
1/1 [=====] - 0s 0s/step - loss: 0.0489 - accuracy:
1.0000

Epoch 1474/5000
1/1 [=====] - 0s 0s/step - loss: 0.0489 - accuracy:
1.0000

Epoch 1475/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0489 - accuracy:
1.0000

Epoch 1476/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0489 - accuracy:
1.0000

Epoch 1477/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0488 - accuracy:
1.0000

Epoch 1478/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0488 - accuracy:
1.0000
Epoch 1479/5000
1/1 [=====] - 0s 0s/step - loss: 0.0488 - accuracy:
1.0000
Epoch 1480/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0488 - accuracy:
1.0000
Epoch 1481/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0487 - accuracy:
1.0000
Epoch 1482/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0487 - accuracy:
1.0000
Epoch 1483/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0487 - accuracy:
1.0000
Epoch 1484/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0487 - accuracy:
1.0000
Epoch 1485/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0487 - accuracy:
1.0000
Epoch 1486/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0487 - accuracy:
1.0000
Epoch 1487/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0486 - accuracy:
1.0000
Epoch 1488/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0486 - accuracy:
1.0000
Epoch 1489/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0486 - accuracy:
1.0000
Epoch 1490/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0486 - accuracy:
1.0000
Epoch 1491/5000
1/1 [=====] - 0s 0s/step - loss: 0.0486 - accuracy:
1.0000
Epoch 1492/5000
1/1 [=====] - 0s 0s/step - loss: 0.0486 - accuracy:
1.0000
Epoch 1493/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0485 - accuracy:
1.0000

Epoch 1494/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0485 - accuracy:
1.0000

Epoch 1495/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0485 - accuracy:
1.0000

Epoch 1496/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0485 - accuracy:
1.0000

Epoch 1497/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0484 - accuracy:
1.0000

Epoch 1498/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0484 - accuracy:
1.0000

Epoch 1499/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0484 - accuracy:
1.0000

Epoch 1500/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0484 - accuracy:
1.0000

Epoch 1501/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0484 - accuracy:
1.0000

Epoch 1502/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0484 - accuracy:
1.0000

Epoch 1503/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0483 - accuracy:
1.0000

Epoch 1504/5000
1/1 [=====] - 0s 3ms/step - loss: 0.0483 - accuracy:
1.0000

Epoch 1505/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0483 - accuracy:
1.0000

Epoch 1506/5000
1/1 [=====] - 0s 0s/step - loss: 0.0483 - accuracy:
1.0000

Epoch 1507/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0483 - accuracy:
1.0000

Epoch 1508/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0482 - accuracy:
1.0000

Epoch 1509/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0482 - accuracy:
1.0000

Epoch 1510/5000
1/1 [=====] - 0s 0s/step - loss: 0.0482 - accuracy:
1.0000

Epoch 1511/5000
1/1 [=====] - 0s 0s/step - loss: 0.0482 - accuracy:
1.0000

Epoch 1512/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0482 - accuracy:
1.0000

Epoch 1513/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0482 - accuracy:
1.0000

Epoch 1514/5000
1/1 [=====] - 0s 0s/step - loss: 0.0481 - accuracy:
1.0000

Epoch 1515/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0481 - accuracy:
1.0000

Epoch 1516/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0481 - accuracy:
1.0000

Epoch 1517/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0481 - accuracy:
1.0000

Epoch 1518/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0481 - accuracy:
1.0000

Epoch 1519/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0481 - accuracy:
1.0000

Epoch 1520/5000
1/1 [=====] - 0s 0s/step - loss: 0.0480 - accuracy:
1.0000

Epoch 1521/5000
1/1 [=====] - 0s 753us/step - loss: 0.0480 - accuracy:
1.0000

Epoch 1522/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0480 - accuracy:
1.0000

Epoch 1523/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0480 - accuracy:
1.0000

Epoch 1524/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0479 - accuracy:
1.0000

Epoch 1525/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0479 - accuracy:
1.0000

Epoch 1526/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0479 - accuracy:
1.0000
Epoch 1527/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0479 - accuracy:
1.0000
Epoch 1528/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0479 - accuracy:
1.0000
Epoch 1529/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0479 - accuracy:
1.0000
Epoch 1530/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0478 - accuracy:
1.0000
Epoch 1531/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0478 - accuracy:
1.0000
Epoch 1532/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0478 - accuracy:
1.0000
Epoch 1533/5000
1/1 [=====] - 0s 0s/step - loss: 0.0478 - accuracy:
1.0000
Epoch 1534/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0478 - accuracy:
1.0000
Epoch 1535/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0477 - accuracy:
1.0000
Epoch 1536/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0477 - accuracy:
1.0000
Epoch 1537/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0477 - accuracy:
1.0000
Epoch 1538/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0477 - accuracy:
1.0000
Epoch 1539/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0477 - accuracy:
1.0000
Epoch 1540/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0476 - accuracy:
1.0000
Epoch 1541/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0476 - accuracy:
1.0000

Epoch 1542/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0476 - accuracy:
1.0000

Epoch 1543/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0476 - accuracy:
1.0000

Epoch 1544/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0476 - accuracy:
1.0000

Epoch 1545/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0476 - accuracy:
1.0000

Epoch 1546/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0475 - accuracy:
1.0000

Epoch 1547/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0475 - accuracy:
1.0000

Epoch 1548/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0475 - accuracy:
1.0000

Epoch 1549/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0475 - accuracy:
1.0000

Epoch 1550/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0475 - accuracy:
1.0000

Epoch 1551/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0474 - accuracy:
1.0000

Epoch 1552/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0474 - accuracy:
1.0000

Epoch 1553/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0474 - accuracy:
1.0000

Epoch 1554/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0474 - accuracy:
1.0000

Epoch 1555/5000
1/1 [=====] - 0s 3ms/step - loss: 0.0474 - accuracy:
1.0000

Epoch 1556/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0474 - accuracy:
1.0000

Epoch 1557/5000
1/1 [=====] - 0s 0s/step - loss: 0.0473 - accuracy:
1.0000

Epoch 1558/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0473 - accuracy:
1.0000

Epoch 1559/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0473 - accuracy:
1.0000

Epoch 1560/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0473 - accuracy:
1.0000

Epoch 1561/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0473 - accuracy:
1.0000

Epoch 1562/5000
1/1 [=====] - 0s 0s/step - loss: 0.0473 - accuracy:
1.0000

Epoch 1563/5000
1/1 [=====] - 0s 0s/step - loss: 0.0472 - accuracy:
1.0000

Epoch 1564/5000
1/1 [=====] - 0s 0s/step - loss: 0.0472 - accuracy:
1.0000

Epoch 1565/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0472 - accuracy:
1.0000

Epoch 1566/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0472 - accuracy:
1.0000

Epoch 1567/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0471 - accuracy:
1.0000

Epoch 1568/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0471 - accuracy:
1.0000

Epoch 1569/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0471 - accuracy:
1.0000

Epoch 1570/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0471 - accuracy:
1.0000

Epoch 1571/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0471 - accuracy:
1.0000

Epoch 1572/5000
1/1 [=====] - 0s 24ms/step - loss: 0.0471 - accuracy:
1.0000

Epoch 1573/5000
1/1 [=====] - 0s 37ms/step - loss: 0.0471 - accuracy:
1.0000

Epoch 1574/5000
1/1 [=====] - 0s 26ms/step - loss: 0.0470 - accuracy: 1.0000

Epoch 1575/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0470 - accuracy: 1.0000

Epoch 1576/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0470 - accuracy: 1.0000

Epoch 1577/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0470 - accuracy: 1.0000

Epoch 1578/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0470 - accuracy: 1.0000

Epoch 1579/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0469 - accuracy: 1.0000

Epoch 1580/5000
1/1 [=====] - 0s 38ms/step - loss: 0.0469 - accuracy: 1.0000

Epoch 1581/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0469 - accuracy: 1.0000

Epoch 1582/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0469 - accuracy: 1.0000

Epoch 1583/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0469 - accuracy: 1.0000

Epoch 1584/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0468 - accuracy: 1.0000

Epoch 1585/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0468 - accuracy: 1.0000

Epoch 1586/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0468 - accuracy: 1.0000

Epoch 1587/5000
1/1 [=====] - 0s 23ms/step - loss: 0.0468 - accuracy: 1.0000

Epoch 1588/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0468 - accuracy: 1.0000

Epoch 1589/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0468 - accuracy: 1.0000

Epoch 1590/5000
1/1 [=====] - 0s 47ms/step - loss: 0.0468 - accuracy:
1.0000

Epoch 1591/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0467 - accuracy:
1.0000

Epoch 1592/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0467 - accuracy:
1.0000

Epoch 1593/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0467 - accuracy:
1.0000

Epoch 1594/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0467 - accuracy:
1.0000

Epoch 1595/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0467 - accuracy:
1.0000

Epoch 1596/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0466 - accuracy:
1.0000

Epoch 1597/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0466 - accuracy:
1.0000

Epoch 1598/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0466 - accuracy:
1.0000

Epoch 1599/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0466 - accuracy:
1.0000

Epoch 1600/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0466 - accuracy:
1.0000

Epoch 1601/5000
1/1 [=====] - 0s 0s/step - loss: 0.0465 - accuracy:
1.0000

Epoch 1602/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0465 - accuracy:
1.0000

Epoch 1603/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0465 - accuracy:
1.0000

Epoch 1604/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0465 - accuracy:
1.0000

Epoch 1605/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0465 - accuracy:
1.0000

Epoch 1606/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0465 - accuracy:
1.0000
Epoch 1607/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0464 - accuracy:
1.0000
Epoch 1608/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0464 - accuracy:
1.0000
Epoch 1609/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0464 - accuracy:
1.0000
Epoch 1610/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0464 - accuracy:
1.0000
Epoch 1611/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0464 - accuracy:
1.0000
Epoch 1612/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0463 - accuracy:
1.0000
Epoch 1613/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0463 - accuracy:
1.0000
Epoch 1614/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0463 - accuracy:
1.0000
Epoch 1615/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0463 - accuracy:
1.0000
Epoch 1616/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0463 - accuracy:
1.0000
Epoch 1617/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0462 - accuracy:
1.0000
Epoch 1618/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0462 - accuracy:
1.0000
Epoch 1619/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0462 - accuracy:
1.0000
Epoch 1620/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0462 - accuracy:
1.0000
Epoch 1621/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0462 - accuracy:
1.0000

Epoch 1622/5000
1/1 [=====] - 0s 5ms/step - loss: 0.0462 - accuracy:
1.0000

Epoch 1623/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0462 - accuracy:
1.0000

Epoch 1624/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0461 - accuracy:
1.0000

Epoch 1625/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0461 - accuracy:
1.0000

Epoch 1626/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0461 - accuracy:
1.0000

Epoch 1627/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0461 - accuracy:
1.0000

Epoch 1628/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0461 - accuracy:
1.0000

Epoch 1629/5000
1/1 [=====] - 0s 0s/step - loss: 0.0460 - accuracy:
1.0000

Epoch 1630/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0460 - accuracy:
1.0000

Epoch 1631/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0460 - accuracy:
1.0000

Epoch 1632/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0460 - accuracy:
1.0000

Epoch 1633/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0460 - accuracy:
1.0000

Epoch 1634/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0460 - accuracy:
1.0000

Epoch 1635/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0459 - accuracy:
1.0000

Epoch 1636/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0459 - accuracy:
1.0000

Epoch 1637/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0459 - accuracy:
1.0000

Epoch 1638/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0459 - accuracy:
1.0000
Epoch 1639/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0459 - accuracy:
1.0000
Epoch 1640/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0459 - accuracy:
1.0000
Epoch 1641/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0458 - accuracy:
1.0000
Epoch 1642/5000
1/1 [=====] - 0s 0s/step - loss: 0.0458 - accuracy:
1.0000
Epoch 1643/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0458 - accuracy:
1.0000
Epoch 1644/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0458 - accuracy:
1.0000
Epoch 1645/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0458 - accuracy:
1.0000
Epoch 1646/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0457 - accuracy:
1.0000
Epoch 1647/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0457 - accuracy:
1.0000
Epoch 1648/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0457 - accuracy:
1.0000
Epoch 1649/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0457 - accuracy:
1.0000
Epoch 1650/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0457 - accuracy:
1.0000
Epoch 1651/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0457 - accuracy:
1.0000
Epoch 1652/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0456 - accuracy:
1.0000
Epoch 1653/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0456 - accuracy:
1.0000

Epoch 1654/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0456 - accuracy:
1.0000
Epoch 1655/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0456 - accuracy:
1.0000
Epoch 1656/5000
1/1 [=====] - 0s 0s/step - loss: 0.0456 - accuracy:
1.0000
Epoch 1657/5000
1/1 [=====] - 0s 0s/step - loss: 0.0456 - accuracy:
1.0000
Epoch 1658/5000
1/1 [=====] - 0s 25ms/step - loss: 0.0455 - accuracy:
1.0000
Epoch 1659/5000
1/1 [=====] - 0s 0s/step - loss: 0.0455 - accuracy:
1.0000
Epoch 1660/5000
1/1 [=====] - 0s 0s/step - loss: 0.0455 - accuracy:
1.0000
Epoch 1661/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0455 - accuracy:
1.0000
Epoch 1662/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0455 - accuracy:
1.0000
Epoch 1663/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0454 - accuracy:
1.0000
Epoch 1664/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0454 - accuracy:
1.0000
Epoch 1665/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0454 - accuracy:
1.0000
Epoch 1666/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0454 - accuracy:
1.0000
Epoch 1667/5000
1/1 [=====] - 0s 23ms/step - loss: 0.0454 - accuracy:
1.0000
Epoch 1668/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0454 - accuracy:
1.0000
Epoch 1669/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0453 - accuracy:
1.0000

Epoch 1670/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0453 - accuracy:
1.0000

Epoch 1671/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0453 - accuracy:
1.0000

Epoch 1672/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0453 - accuracy:
1.0000

Epoch 1673/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0453 - accuracy:
1.0000

Epoch 1674/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0453 - accuracy:
1.0000

Epoch 1675/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0452 - accuracy:
1.0000

Epoch 1676/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0452 - accuracy:
1.0000

Epoch 1677/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0452 - accuracy:
1.0000

Epoch 1678/5000
1/1 [=====] - 0s 27ms/step - loss: 0.0452 - accuracy:
1.0000

Epoch 1679/5000
1/1 [=====] - 0s 23ms/step - loss: 0.0452 - accuracy:
1.0000

Epoch 1680/5000
1/1 [=====] - 0s 32ms/step - loss: 0.0451 - accuracy:
1.0000

Epoch 1681/5000
1/1 [=====] - 0s 31ms/step - loss: 0.0451 - accuracy:
1.0000

Epoch 1682/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0451 - accuracy:
1.0000

Epoch 1683/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0451 - accuracy:
1.0000

Epoch 1684/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0451 - accuracy:
1.0000

Epoch 1685/5000
1/1 [=====] - 0s 29ms/step - loss: 0.0451 - accuracy:
1.0000

Epoch 1686/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0451 - accuracy:
1.0000
Epoch 1687/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0450 - accuracy:
1.0000
Epoch 1688/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0450 - accuracy:
1.0000
Epoch 1689/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0450 - accuracy:
1.0000
Epoch 1690/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0450 - accuracy:
1.0000
Epoch 1691/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0450 - accuracy:
1.0000
Epoch 1692/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0450 - accuracy:
1.0000
Epoch 1693/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0449 - accuracy:
1.0000
Epoch 1694/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0449 - accuracy:
1.0000
Epoch 1695/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0449 - accuracy:
1.0000
Epoch 1696/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0449 - accuracy:
1.0000
Epoch 1697/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0449 - accuracy:
1.0000
Epoch 1698/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0448 - accuracy:
1.0000
Epoch 1699/5000
1/1 [=====] - 0s 23ms/step - loss: 0.0448 - accuracy:
1.0000
Epoch 1700/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0448 - accuracy:
1.0000
Epoch 1701/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0448 - accuracy:
1.0000

Epoch 1702/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0448 - accuracy:
1.0000
Epoch 1703/5000
1/1 [=====] - 0s 30ms/step - loss: 0.0448 - accuracy:
1.0000
Epoch 1704/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0447 - accuracy:
1.0000
Epoch 1705/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0447 - accuracy:
1.0000
Epoch 1706/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0447 - accuracy:
1.0000
Epoch 1707/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0447 - accuracy:
1.0000
Epoch 1708/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0447 - accuracy:
1.0000
Epoch 1709/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0447 - accuracy:
1.0000
Epoch 1710/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0446 - accuracy:
1.0000
Epoch 1711/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0446 - accuracy:
1.0000
Epoch 1712/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0446 - accuracy:
1.0000
Epoch 1713/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0446 - accuracy:
1.0000
Epoch 1714/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0446 - accuracy:
1.0000
Epoch 1715/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0445 - accuracy:
1.0000
Epoch 1716/5000
1/1 [=====] - 0s 27ms/step - loss: 0.0445 - accuracy:
1.0000
Epoch 1717/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0445 - accuracy:
1.0000

Epoch 1718/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0445 - accuracy:
1.0000
Epoch 1719/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0445 - accuracy:
1.0000
Epoch 1720/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0445 - accuracy:
1.0000
Epoch 1721/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0445 - accuracy:
1.0000
Epoch 1722/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0444 - accuracy:
1.0000
Epoch 1723/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0444 - accuracy:
1.0000
Epoch 1724/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0444 - accuracy:
1.0000
Epoch 1725/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0444 - accuracy:
1.0000
Epoch 1726/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0444 - accuracy:
1.0000
Epoch 1727/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0444 - accuracy:
1.0000
Epoch 1728/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0443 - accuracy:
1.0000
Epoch 1729/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0443 - accuracy:
1.0000
Epoch 1730/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0443 - accuracy:
1.0000
Epoch 1731/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0443 - accuracy:
1.0000
Epoch 1732/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0443 - accuracy:
1.0000
Epoch 1733/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0442 - accuracy:
1.0000

Epoch 1734/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0442 - accuracy:
1.0000

Epoch 1735/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0442 - accuracy:
1.0000

Epoch 1736/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0442 - accuracy:
1.0000

Epoch 1737/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0442 - accuracy:
1.0000

Epoch 1738/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0442 - accuracy:
1.0000

Epoch 1739/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0441 - accuracy:
1.0000

Epoch 1740/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0441 - accuracy:
1.0000

Epoch 1741/5000
1/1 [=====] - 0s 24ms/step - loss: 0.0441 - accuracy:
1.0000

Epoch 1742/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0441 - accuracy:
1.0000

Epoch 1743/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0441 - accuracy:
1.0000

Epoch 1744/5000
1/1 [=====] - 0s 32ms/step - loss: 0.0441 - accuracy:
1.0000

Epoch 1745/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0441 - accuracy:
1.0000

Epoch 1746/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0440 - accuracy:
1.0000

Epoch 1747/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0440 - accuracy:
1.0000

Epoch 1748/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0440 - accuracy:
1.0000

Epoch 1749/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0440 - accuracy:
1.0000

Epoch 1750/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0440 - accuracy:
1.0000
Epoch 1751/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0439 - accuracy:
1.0000
Epoch 1752/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0439 - accuracy:
1.0000
Epoch 1753/5000
1/1 [=====] - 0s 24ms/step - loss: 0.0439 - accuracy:
1.0000
Epoch 1754/5000
1/1 [=====] - 0s 28ms/step - loss: 0.0439 - accuracy:
1.0000
Epoch 1755/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0439 - accuracy:
1.0000
Epoch 1756/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0439 - accuracy:
1.0000
Epoch 1757/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0438 - accuracy:
1.0000
Epoch 1758/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0438 - accuracy:
1.0000
Epoch 1759/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0438 - accuracy:
1.0000
Epoch 1760/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0438 - accuracy:
1.0000
Epoch 1761/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0438 - accuracy:
1.0000
Epoch 1762/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0438 - accuracy:
1.0000
Epoch 1763/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0438 - accuracy:
1.0000
Epoch 1764/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0437 - accuracy:
1.0000
Epoch 1765/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0437 - accuracy:
1.0000

Epoch 1766/5000
1/1 [=====] - 0s 26ms/step - loss: 0.0437 - accuracy:
1.0000

Epoch 1767/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0437 - accuracy:
1.0000

Epoch 1768/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0437 - accuracy:
1.0000

Epoch 1769/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0436 - accuracy:
1.0000

Epoch 1770/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0436 - accuracy:
1.0000

Epoch 1771/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0436 - accuracy:
1.0000

Epoch 1772/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0436 - accuracy:
1.0000

Epoch 1773/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0436 - accuracy:
1.0000

Epoch 1774/5000
1/1 [=====] - 0s 23ms/step - loss: 0.0436 - accuracy:
1.0000

Epoch 1775/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0435 - accuracy:
1.0000

Epoch 1776/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0435 - accuracy:
1.0000

Epoch 1777/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0435 - accuracy:
1.0000

Epoch 1778/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0435 - accuracy:
1.0000

Epoch 1779/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0435 - accuracy:
1.0000

Epoch 1780/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0435 - accuracy:
1.0000

Epoch 1781/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0435 - accuracy:
1.0000

Epoch 1782/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0434 - accuracy: 1.0000

Epoch 1783/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0434 - accuracy: 1.0000

Epoch 1784/5000
1/1 [=====] - 0s 25ms/step - loss: 0.0434 - accuracy: 1.0000

Epoch 1785/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0434 - accuracy: 1.0000

Epoch 1786/5000
1/1 [=====] - 0s 32ms/step - loss: 0.0434 - accuracy: 1.0000

Epoch 1787/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0433 - accuracy: 1.0000

Epoch 1788/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0433 - accuracy: 1.0000

Epoch 1789/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0433 - accuracy: 1.0000

Epoch 1790/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0433 - accuracy: 1.0000

Epoch 1791/5000
1/1 [=====] - 0s 24ms/step - loss: 0.0433 - accuracy: 1.0000

Epoch 1792/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0433 - accuracy: 1.0000

Epoch 1793/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0432 - accuracy: 1.0000

Epoch 1794/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0432 - accuracy: 1.0000

Epoch 1795/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0432 - accuracy: 1.0000

Epoch 1796/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0432 - accuracy: 1.0000

Epoch 1797/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0432 - accuracy: 1.0000

Epoch 1798/5000
1/1 [=====] - 0s 25ms/step - loss: 0.0432 - accuracy:
1.0000

Epoch 1799/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0431 - accuracy:
1.0000

Epoch 1800/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0431 - accuracy:
1.0000

Epoch 1801/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0431 - accuracy:
1.0000

Epoch 1802/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0431 - accuracy:
1.0000

Epoch 1803/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0431 - accuracy:
1.0000

Epoch 1804/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0431 - accuracy:
1.0000

Epoch 1805/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0430 - accuracy:
1.0000

Epoch 1806/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0430 - accuracy:
1.0000

Epoch 1807/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0430 - accuracy:
1.0000

Epoch 1808/5000
1/1 [=====] - 0s 30ms/step - loss: 0.0430 - accuracy:
1.0000

Epoch 1809/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0430 - accuracy:
1.0000

Epoch 1810/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0430 - accuracy:
1.0000

Epoch 1811/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0429 - accuracy:
1.0000

Epoch 1812/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0429 - accuracy:
1.0000

Epoch 1813/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0429 - accuracy:
1.0000

Epoch 1814/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0429 - accuracy:
1.0000

Epoch 1815/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0429 - accuracy:
1.0000

Epoch 1816/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0429 - accuracy:
1.0000

Epoch 1817/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0429 - accuracy:
1.0000

Epoch 1818/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0428 - accuracy:
1.0000

Epoch 1819/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0428 - accuracy:
1.0000

Epoch 1820/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0428 - accuracy:
1.0000

Epoch 1821/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0428 - accuracy:
1.0000

Epoch 1822/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0428 - accuracy:
1.0000

Epoch 1823/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0428 - accuracy:
1.0000

Epoch 1824/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0427 - accuracy:
1.0000

Epoch 1825/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0427 - accuracy:
1.0000

Epoch 1826/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0427 - accuracy:
1.0000

Epoch 1827/5000
1/1 [=====] - 0s 26ms/step - loss: 0.0427 - accuracy:
1.0000

Epoch 1828/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0427 - accuracy:
1.0000

Epoch 1829/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0426 - accuracy:
1.0000

Epoch 1830/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0426 - accuracy:
1.0000

Epoch 1831/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0426 - accuracy:
1.0000

Epoch 1832/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0426 - accuracy:
1.0000

Epoch 1833/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0426 - accuracy:
1.0000

Epoch 1834/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0426 - accuracy:
1.0000

Epoch 1835/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0426 - accuracy:
1.0000

Epoch 1836/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0425 - accuracy:
1.0000

Epoch 1837/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0425 - accuracy:
1.0000

Epoch 1838/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0425 - accuracy:
1.0000

Epoch 1839/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0425 - accuracy:
1.0000

Epoch 1840/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0425 - accuracy:
1.0000

Epoch 1841/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0425 - accuracy:
1.0000

Epoch 1842/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0425 - accuracy:
1.0000

Epoch 1843/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0424 - accuracy:
1.0000

Epoch 1844/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0424 - accuracy:
1.0000

Epoch 1845/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0424 - accuracy:
1.0000

Epoch 1846/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0424 - accuracy:
1.0000
Epoch 1847/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0424 - accuracy:
1.0000
Epoch 1848/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0423 - accuracy:
1.0000
Epoch 1849/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0423 - accuracy:
1.0000
Epoch 1850/5000
1/1 [=====] - 0s 26ms/step - loss: 0.0423 - accuracy:
1.0000
Epoch 1851/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0423 - accuracy:
1.0000
Epoch 1852/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0423 - accuracy:
1.0000
Epoch 1853/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0423 - accuracy:
1.0000
Epoch 1854/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0422 - accuracy:
1.0000
Epoch 1855/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0422 - accuracy:
1.0000
Epoch 1856/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0422 - accuracy:
1.0000
Epoch 1857/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0422 - accuracy:
1.0000
Epoch 1858/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0422 - accuracy:
1.0000
Epoch 1859/5000
1/1 [=====] - 0s 24ms/step - loss: 0.0422 - accuracy:
1.0000
Epoch 1860/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0422 - accuracy:
1.0000
Epoch 1861/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0421 - accuracy:
1.0000

Epoch 1862/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0421 - accuracy:
1.0000
Epoch 1863/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0421 - accuracy:
1.0000
Epoch 1864/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0421 - accuracy:
1.0000
Epoch 1865/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0421 - accuracy:
1.0000
Epoch 1866/5000
1/1 [=====] - 0s 26ms/step - loss: 0.0421 - accuracy:
1.0000
Epoch 1867/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0420 - accuracy:
1.0000
Epoch 1868/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0420 - accuracy:
1.0000
Epoch 1869/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0420 - accuracy:
1.0000
Epoch 1870/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0420 - accuracy:
1.0000
Epoch 1871/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0420 - accuracy:
1.0000
Epoch 1872/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0420 - accuracy:
1.0000
Epoch 1873/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0419 - accuracy:
1.0000
Epoch 1874/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0419 - accuracy:
1.0000
Epoch 1875/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0419 - accuracy:
1.0000
Epoch 1876/5000
1/1 [=====] - 0s 23ms/step - loss: 0.0419 - accuracy:
1.0000
Epoch 1877/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0419 - accuracy:
1.0000

Epoch 1878/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0419 - accuracy:
1.0000
Epoch 1879/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0419 - accuracy:
1.0000
Epoch 1880/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0418 - accuracy:
1.0000
Epoch 1881/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0418 - accuracy:
1.0000
Epoch 1882/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0418 - accuracy:
1.0000
Epoch 1883/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0418 - accuracy:
1.0000
Epoch 1884/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0418 - accuracy:
1.0000
Epoch 1885/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0418 - accuracy:
1.0000
Epoch 1886/5000
1/1 [=====] - 0s 23ms/step - loss: 0.0417 - accuracy:
1.0000
Epoch 1887/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0417 - accuracy:
1.0000
Epoch 1888/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0417 - accuracy:
1.0000
Epoch 1889/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0417 - accuracy:
1.0000
Epoch 1890/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0417 - accuracy:
1.0000
Epoch 1891/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0417 - accuracy:
1.0000
Epoch 1892/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0416 - accuracy:
1.0000
Epoch 1893/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0416 - accuracy:
1.0000

Epoch 1894/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0416 - accuracy:
1.0000
Epoch 1895/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0416 - accuracy:
1.0000
Epoch 1896/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0416 - accuracy:
1.0000
Epoch 1897/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0416 - accuracy:
1.0000
Epoch 1898/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0415 - accuracy:
1.0000
Epoch 1899/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0415 - accuracy:
1.0000
Epoch 1900/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0415 - accuracy:
1.0000
Epoch 1901/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0415 - accuracy:
1.0000
Epoch 1902/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0415 - accuracy:
1.0000
Epoch 1903/5000
1/1 [=====] - 0s 48ms/step - loss: 0.0415 - accuracy:
1.0000
Epoch 1904/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0415 - accuracy:
1.0000
Epoch 1905/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0414 - accuracy:
1.0000
Epoch 1906/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0414 - accuracy:
1.0000
Epoch 1907/5000
1/1 [=====] - 0s 24ms/step - loss: 0.0414 - accuracy:
1.0000
Epoch 1908/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0414 - accuracy:
1.0000
Epoch 1909/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0414 - accuracy:
1.0000

Epoch 1910/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0414 - accuracy:
1.0000
Epoch 1911/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0414 - accuracy:
1.0000
Epoch 1912/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0413 - accuracy:
1.0000
Epoch 1913/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0413 - accuracy:
1.0000
Epoch 1914/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0413 - accuracy:
1.0000
Epoch 1915/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0413 - accuracy:
1.0000
Epoch 1916/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0413 - accuracy:
1.0000
Epoch 1917/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0413 - accuracy:
1.0000
Epoch 1918/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0412 - accuracy:
1.0000
Epoch 1919/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0412 - accuracy:
1.0000
Epoch 1920/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0412 - accuracy:
1.0000
Epoch 1921/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0412 - accuracy:
1.0000
Epoch 1922/5000
1/1 [=====] - 0s 26ms/step - loss: 0.0412 - accuracy:
1.0000
Epoch 1923/5000
1/1 [=====] - 0s 26ms/step - loss: 0.0412 - accuracy:
1.0000
Epoch 1924/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0412 - accuracy:
1.0000
Epoch 1925/5000
1/1 [=====] - 0s 25ms/step - loss: 0.0411 - accuracy:
1.0000

Epoch 1926/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0411 - accuracy:
1.0000
Epoch 1927/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0411 - accuracy:
1.0000
Epoch 1928/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0411 - accuracy:
1.0000
Epoch 1929/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0411 - accuracy:
1.0000
Epoch 1930/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0411 - accuracy:
1.0000
Epoch 1931/5000
1/1 [=====] - 0s 25ms/step - loss: 0.0410 - accuracy:
1.0000
Epoch 1932/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0410 - accuracy:
1.0000
Epoch 1933/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0410 - accuracy:
1.0000
Epoch 1934/5000
1/1 [=====] - 0s 24ms/step - loss: 0.0410 - accuracy:
1.0000
Epoch 1935/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0410 - accuracy:
1.0000
Epoch 1936/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0410 - accuracy:
1.0000
Epoch 1937/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0409 - accuracy:
1.0000
Epoch 1938/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0409 - accuracy:
1.0000
Epoch 1939/5000
1/1 [=====] - 0s 23ms/step - loss: 0.0409 - accuracy:
1.0000
Epoch 1940/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0409 - accuracy:
1.0000
Epoch 1941/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0409 - accuracy:
1.0000

Epoch 1942/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0409 - accuracy: 1.0000

Epoch 1943/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0408 - accuracy: 1.0000

Epoch 1944/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0408 - accuracy: 1.0000

Epoch 1945/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0408 - accuracy: 1.0000

Epoch 1946/5000
1/1 [=====] - 0s 25ms/step - loss: 0.0408 - accuracy: 1.0000

Epoch 1947/5000
1/1 [=====] - 0s 25ms/step - loss: 0.0408 - accuracy: 1.0000

Epoch 1948/5000
1/1 [=====] - 0s 26ms/step - loss: 0.0408 - accuracy: 1.0000

Epoch 1949/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0408 - accuracy: 1.0000

Epoch 1950/5000
1/1 [=====] - 0s 23ms/step - loss: 0.0407 - accuracy: 1.0000

Epoch 1951/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0407 - accuracy: 1.0000

Epoch 1952/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0407 - accuracy: 1.0000

Epoch 1953/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0407 - accuracy: 1.0000

Epoch 1954/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0407 - accuracy: 1.0000

Epoch 1955/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0407 - accuracy: 1.0000

Epoch 1956/5000
1/1 [=====] - 0s 25ms/step - loss: 0.0407 - accuracy: 1.0000

Epoch 1957/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0406 - accuracy: 1.0000

Epoch 1958/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0406 - accuracy:
1.0000

Epoch 1959/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0406 - accuracy:
1.0000

Epoch 1960/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0406 - accuracy:
1.0000

Epoch 1961/5000
1/1 [=====] - 0s 25ms/step - loss: 0.0406 - accuracy:
1.0000

Epoch 1962/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0406 - accuracy:
1.0000

Epoch 1963/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0405 - accuracy:
1.0000

Epoch 1964/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0405 - accuracy:
1.0000

Epoch 1965/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0405 - accuracy:
1.0000

Epoch 1966/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0405 - accuracy:
1.0000

Epoch 1967/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0405 - accuracy:
1.0000

Epoch 1968/5000
1/1 [=====] - 0s 23ms/step - loss: 0.0405 - accuracy:
1.0000

Epoch 1969/5000
1/1 [=====] - 0s 24ms/step - loss: 0.0404 - accuracy:
1.0000

Epoch 1970/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0404 - accuracy:
1.0000

Epoch 1971/5000
1/1 [=====] - 0s 23ms/step - loss: 0.0404 - accuracy:
1.0000

Epoch 1972/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0404 - accuracy:
1.0000

Epoch 1973/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0404 - accuracy:
1.0000

Epoch 1974/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0404 - accuracy:
1.0000

Epoch 1975/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0404 - accuracy:
1.0000

Epoch 1976/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0403 - accuracy:
1.0000

Epoch 1977/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0403 - accuracy:
1.0000

Epoch 1978/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0403 - accuracy:
1.0000

Epoch 1979/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0403 - accuracy:
1.0000

Epoch 1980/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0403 - accuracy:
1.0000

Epoch 1981/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0403 - accuracy:
1.0000

Epoch 1982/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0403 - accuracy:
1.0000

Epoch 1983/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0402 - accuracy:
1.0000

Epoch 1984/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0402 - accuracy:
1.0000

Epoch 1985/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0402 - accuracy:
1.0000

Epoch 1986/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0402 - accuracy:
1.0000

Epoch 1987/5000
1/1 [=====] - 0s 24ms/step - loss: 0.0402 - accuracy:
1.0000

Epoch 1988/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0402 - accuracy:
1.0000

Epoch 1989/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0401 - accuracy:
1.0000

Epoch 1990/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0401 - accuracy:
1.0000

Epoch 1991/5000
1/1 [=====] - 0s 35ms/step - loss: 0.0401 - accuracy:
1.0000

Epoch 1992/5000
1/1 [=====] - 0s 34ms/step - loss: 0.0401 - accuracy:
1.0000

Epoch 1993/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0401 - accuracy:
1.0000

Epoch 1994/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0401 - accuracy:
1.0000

Epoch 1995/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0401 - accuracy:
1.0000

Epoch 1996/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0400 - accuracy:
1.0000

Epoch 1997/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0400 - accuracy:
1.0000

Epoch 1998/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0400 - accuracy:
1.0000

Epoch 1999/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0400 - accuracy:
1.0000

Epoch 2000/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0400 - accuracy:
1.0000

Epoch 2001/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0400 - accuracy:
1.0000

Epoch 2002/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0400 - accuracy:
1.0000

Epoch 2003/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0399 - accuracy:
1.0000

Epoch 2004/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0399 - accuracy:
1.0000

Epoch 2005/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0399 - accuracy:
1.0000

Epoch 2006/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0399 - accuracy:
1.0000
Epoch 2007/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0399 - accuracy:
1.0000
Epoch 2008/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0399 - accuracy:
1.0000
Epoch 2009/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0398 - accuracy:
1.0000
Epoch 2010/5000
1/1 [=====] - 0s 27ms/step - loss: 0.0398 - accuracy:
1.0000
Epoch 2011/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0398 - accuracy:
1.0000
Epoch 2012/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0398 - accuracy:
1.0000
Epoch 2013/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0398 - accuracy:
1.0000
Epoch 2014/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0398 - accuracy:
1.0000
Epoch 2015/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0398 - accuracy:
1.0000
Epoch 2016/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0397 - accuracy:
1.0000
Epoch 2017/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0397 - accuracy:
1.0000
Epoch 2018/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0397 - accuracy:
1.0000
Epoch 2019/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0397 - accuracy:
1.0000
Epoch 2020/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0397 - accuracy:
1.0000
Epoch 2021/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0397 - accuracy:
1.0000

Epoch 2022/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0397 - accuracy:
1.0000
Epoch 2023/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0396 - accuracy:
1.0000
Epoch 2024/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0396 - accuracy:
1.0000
Epoch 2025/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0396 - accuracy:
1.0000
Epoch 2026/5000
1/1 [=====] - 0s 26ms/step - loss: 0.0396 - accuracy:
1.0000
Epoch 2027/5000
1/1 [=====] - 0s 31ms/step - loss: 0.0396 - accuracy:
1.0000
Epoch 2028/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0396 - accuracy:
1.0000
Epoch 2029/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0396 - accuracy:
1.0000
Epoch 2030/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0395 - accuracy:
1.0000
Epoch 2031/5000
1/1 [=====] - 0s 28ms/step - loss: 0.0395 - accuracy:
1.0000
Epoch 2032/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0395 - accuracy:
1.0000
Epoch 2033/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0395 - accuracy:
1.0000
Epoch 2034/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0395 - accuracy:
1.0000
Epoch 2035/5000
1/1 [=====] - 0s 31ms/step - loss: 0.0395 - accuracy:
1.0000
Epoch 2036/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0394 - accuracy:
1.0000
Epoch 2037/5000
1/1 [=====] - 0s 23ms/step - loss: 0.0394 - accuracy:
1.0000

Epoch 2038/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0394 - accuracy:
1.0000
Epoch 2039/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0394 - accuracy:
1.0000
Epoch 2040/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0394 - accuracy:
1.0000
Epoch 2041/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0394 - accuracy:
1.0000
Epoch 2042/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0393 - accuracy:
1.0000
Epoch 2043/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0393 - accuracy:
1.0000
Epoch 2044/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0393 - accuracy:
1.0000
Epoch 2045/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0393 - accuracy:
1.0000
Epoch 2046/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0393 - accuracy:
1.0000
Epoch 2047/5000
1/1 [=====] - 0s 26ms/step - loss: 0.0393 - accuracy:
1.0000
Epoch 2048/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0393 - accuracy:
1.0000
Epoch 2049/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0393 - accuracy:
1.0000
Epoch 2050/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0392 - accuracy:
1.0000
Epoch 2051/5000
1/1 [=====] - 0s 23ms/step - loss: 0.0392 - accuracy:
1.0000
Epoch 2052/5000
1/1 [=====] - 0s 32ms/step - loss: 0.0392 - accuracy:
1.0000
Epoch 2053/5000
1/1 [=====] - 0s 31ms/step - loss: 0.0392 - accuracy:
1.0000

Epoch 2054/5000
1/1 [=====] - 0s 25ms/step - loss: 0.0392 - accuracy: 1.0000

Epoch 2055/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0392 - accuracy: 1.0000

Epoch 2056/5000
1/1 [=====] - 0s 25ms/step - loss: 0.0392 - accuracy: 1.0000

Epoch 2057/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0391 - accuracy: 1.0000

Epoch 2058/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0391 - accuracy: 1.0000

Epoch 2059/5000
1/1 [=====] - 0s 24ms/step - loss: 0.0391 - accuracy: 1.0000

Epoch 2060/5000
1/1 [=====] - 0s 34ms/step - loss: 0.0391 - accuracy: 1.0000

Epoch 2061/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0391 - accuracy: 1.0000

Epoch 2062/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0391 - accuracy: 1.0000

Epoch 2063/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0390 - accuracy: 1.0000

Epoch 2064/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0390 - accuracy: 1.0000

Epoch 2065/5000
1/1 [=====] - 0s 24ms/step - loss: 0.0390 - accuracy: 1.0000

Epoch 2066/5000
1/1 [=====] - 0s 24ms/step - loss: 0.0390 - accuracy: 1.0000

Epoch 2067/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0390 - accuracy: 1.0000

Epoch 2068/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0390 - accuracy: 1.0000

Epoch 2069/5000
1/1 [=====] - 0s 28ms/step - loss: 0.0390 - accuracy: 1.0000

Epoch 2070/5000
1/1 [=====] - 0s 25ms/step - loss: 0.0389 - accuracy: 1.0000

Epoch 2071/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0389 - accuracy: 1.0000

Epoch 2072/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0389 - accuracy: 1.0000

Epoch 2073/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0389 - accuracy: 1.0000

Epoch 2074/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0389 - accuracy: 1.0000

Epoch 2075/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0389 - accuracy: 1.0000

Epoch 2076/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0388 - accuracy: 1.0000

Epoch 2077/5000
1/1 [=====] - 0s 23ms/step - loss: 0.0388 - accuracy: 1.0000

Epoch 2078/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0388 - accuracy: 1.0000

Epoch 2079/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0388 - accuracy: 1.0000

Epoch 2080/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0388 - accuracy: 1.0000

Epoch 2081/5000
1/1 [=====] - 0s 23ms/step - loss: 0.0388 - accuracy: 1.0000

Epoch 2082/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0388 - accuracy: 1.0000

Epoch 2083/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0388 - accuracy: 1.0000

Epoch 2084/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0387 - accuracy: 1.0000

Epoch 2085/5000
1/1 [=====] - 0s 31ms/step - loss: 0.0387 - accuracy: 1.0000

Epoch 2086/5000
1/1 [=====] - 0s 23ms/step - loss: 0.0387 - accuracy:
1.0000
Epoch 2087/5000
1/1 [=====] - 0s 23ms/step - loss: 0.0387 - accuracy:
1.0000
Epoch 2088/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0387 - accuracy:
1.0000
Epoch 2089/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0387 - accuracy:
1.0000
Epoch 2090/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0386 - accuracy:
1.0000
Epoch 2091/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0386 - accuracy:
1.0000
Epoch 2092/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0386 - accuracy:
1.0000
Epoch 2093/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0386 - accuracy:
1.0000
Epoch 2094/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0386 - accuracy:
1.0000
Epoch 2095/5000
1/1 [=====] - 0s 25ms/step - loss: 0.0386 - accuracy:
1.0000
Epoch 2096/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0386 - accuracy:
1.0000
Epoch 2097/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0385 - accuracy:
1.0000
Epoch 2098/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0385 - accuracy:
1.0000
Epoch 2099/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0385 - accuracy:
1.0000
Epoch 2100/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0385 - accuracy:
1.0000
Epoch 2101/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0385 - accuracy:
1.0000

Epoch 2102/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0385 - accuracy:
1.0000
Epoch 2103/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0385 - accuracy:
1.0000
Epoch 2104/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0384 - accuracy:
1.0000
Epoch 2105/5000
1/1 [=====] - 0s 24ms/step - loss: 0.0384 - accuracy:
1.0000
Epoch 2106/5000
1/1 [=====] - 0s 27ms/step - loss: 0.0384 - accuracy:
1.0000
Epoch 2107/5000
1/1 [=====] - 0s 30ms/step - loss: 0.0384 - accuracy:
1.0000
Epoch 2108/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0384 - accuracy:
1.0000
Epoch 2109/5000
1/1 [=====] - 0s 23ms/step - loss: 0.0384 - accuracy:
1.0000
Epoch 2110/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0384 - accuracy:
1.0000
Epoch 2111/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0383 - accuracy:
1.0000
Epoch 2112/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0383 - accuracy:
1.0000
Epoch 2113/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0383 - accuracy:
1.0000
Epoch 2114/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0383 - accuracy:
1.0000
Epoch 2115/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0383 - accuracy:
1.0000
Epoch 2116/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0383 - accuracy:
1.0000
Epoch 2117/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0383 - accuracy:
1.0000

Epoch 2118/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0382 - accuracy:
1.0000
Epoch 2119/5000
1/1 [=====] - 0s 26ms/step - loss: 0.0382 - accuracy:
1.0000
Epoch 2120/5000
1/1 [=====] - 0s 25ms/step - loss: 0.0382 - accuracy:
1.0000
Epoch 2121/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0382 - accuracy:
1.0000
Epoch 2122/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0382 - accuracy:
1.0000
Epoch 2123/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0382 - accuracy:
1.0000
Epoch 2124/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0382 - accuracy:
1.0000
Epoch 2125/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0381 - accuracy:
1.0000
Epoch 2126/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0381 - accuracy:
1.0000
Epoch 2127/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0381 - accuracy:
1.0000
Epoch 2128/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0381 - accuracy:
1.0000
Epoch 2129/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0381 - accuracy:
1.0000
Epoch 2130/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0381 - accuracy:
1.0000
Epoch 2131/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0380 - accuracy:
1.0000
Epoch 2132/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0380 - accuracy:
1.0000
Epoch 2133/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0380 - accuracy:
1.0000

Epoch 2134/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0380 - accuracy:
1.0000
Epoch 2135/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0380 - accuracy:
1.0000
Epoch 2136/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0380 - accuracy:
1.0000
Epoch 2137/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0380 - accuracy:
1.0000
Epoch 2138/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0380 - accuracy:
1.0000
Epoch 2139/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0379 - accuracy:
1.0000
Epoch 2140/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0379 - accuracy:
1.0000
Epoch 2141/5000
1/1 [=====] - 0s 28ms/step - loss: 0.0379 - accuracy:
1.0000
Epoch 2142/5000
1/1 [=====] - 0s 23ms/step - loss: 0.0379 - accuracy:
1.0000
Epoch 2143/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0379 - accuracy:
1.0000
Epoch 2144/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0379 - accuracy:
1.0000
Epoch 2145/5000
1/1 [=====] - 0s 26ms/step - loss: 0.0379 - accuracy:
1.0000
Epoch 2146/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0379 - accuracy:
1.0000
Epoch 2147/5000
1/1 [=====] - 0s 23ms/step - loss: 0.0378 - accuracy:
1.0000
Epoch 2148/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0378 - accuracy:
1.0000
Epoch 2149/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0378 - accuracy:
1.0000

Epoch 2150/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0378 - accuracy:
1.0000
Epoch 2151/5000
1/1 [=====] - 0s 26ms/step - loss: 0.0378 - accuracy:
1.0000
Epoch 2152/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0378 - accuracy:
1.0000
Epoch 2153/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0377 - accuracy:
1.0000
Epoch 2154/5000
1/1 [=====] - 0s 27ms/step - loss: 0.0377 - accuracy:
1.0000
Epoch 2155/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0377 - accuracy:
1.0000
Epoch 2156/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0377 - accuracy:
1.0000
Epoch 2157/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0377 - accuracy:
1.0000
Epoch 2158/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0377 - accuracy:
1.0000
Epoch 2159/5000
1/1 [=====] - 0s 25ms/step - loss: 0.0377 - accuracy:
1.0000
Epoch 2160/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0376 - accuracy:
1.0000
Epoch 2161/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0376 - accuracy:
1.0000
Epoch 2162/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0376 - accuracy:
1.0000
Epoch 2163/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0376 - accuracy:
1.0000
Epoch 2164/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0376 - accuracy:
1.0000
Epoch 2165/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0376 - accuracy:
1.0000

Epoch 2166/5000
1/1 [=====] - 0s 26ms/step - loss: 0.0376 - accuracy:
1.0000
Epoch 2167/5000
1/1 [=====] - 0s 30ms/step - loss: 0.0375 - accuracy:
1.0000
Epoch 2168/5000
1/1 [=====] - 0s 26ms/step - loss: 0.0375 - accuracy:
1.0000
Epoch 2169/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0375 - accuracy:
1.0000
Epoch 2170/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0375 - accuracy:
1.0000
Epoch 2171/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0375 - accuracy:
1.0000
Epoch 2172/5000
1/1 [=====] - 0s 24ms/step - loss: 0.0375 - accuracy:
1.0000
Epoch 2173/5000
1/1 [=====] - 0s 24ms/step - loss: 0.0375 - accuracy:
1.0000
Epoch 2174/5000
1/1 [=====] - 0s 25ms/step - loss: 0.0375 - accuracy:
1.0000
Epoch 2175/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0374 - accuracy:
1.0000
Epoch 2176/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0374 - accuracy:
1.0000
Epoch 2177/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0374 - accuracy:
1.0000
Epoch 2178/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0374 - accuracy:
1.0000
Epoch 2179/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0374 - accuracy:
1.0000
Epoch 2180/5000
1/1 [=====] - 0s 25ms/step - loss: 0.0374 - accuracy:
1.0000
Epoch 2181/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0374 - accuracy:
1.0000

Epoch 2182/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0373 - accuracy:
1.0000
Epoch 2183/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0373 - accuracy:
1.0000
Epoch 2184/5000
1/1 [=====] - 0s 30ms/step - loss: 0.0373 - accuracy:
1.0000
Epoch 2185/5000
1/1 [=====] - 0s 26ms/step - loss: 0.0373 - accuracy:
1.0000
Epoch 2186/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0373 - accuracy:
1.0000
Epoch 2187/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0373 - accuracy:
1.0000
Epoch 2188/5000
1/1 [=====] - 0s 26ms/step - loss: 0.0373 - accuracy:
1.0000
Epoch 2189/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0372 - accuracy:
1.0000
Epoch 2190/5000
1/1 [=====] - 0s 27ms/step - loss: 0.0372 - accuracy:
1.0000
Epoch 2191/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0372 - accuracy:
1.0000
Epoch 2192/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0372 - accuracy:
1.0000
Epoch 2193/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0372 - accuracy:
1.0000
Epoch 2194/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0372 - accuracy:
1.0000
Epoch 2195/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0371 - accuracy:
1.0000
Epoch 2196/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0371 - accuracy:
1.0000
Epoch 2197/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0371 - accuracy:
1.0000

Epoch 2198/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0371 - accuracy:
1.0000
Epoch 2199/5000
1/1 [=====] - 0s 25ms/step - loss: 0.0371 - accuracy:
1.0000
Epoch 2200/5000
1/1 [=====] - 0s 24ms/step - loss: 0.0371 - accuracy:
1.0000
Epoch 2201/5000
1/1 [=====] - 0s 29ms/step - loss: 0.0371 - accuracy:
1.0000
Epoch 2202/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0371 - accuracy:
1.0000
Epoch 2203/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0370 - accuracy:
1.0000
Epoch 2204/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0370 - accuracy:
1.0000
Epoch 2205/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0370 - accuracy:
1.0000
Epoch 2206/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0370 - accuracy:
1.0000
Epoch 2207/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0370 - accuracy:
1.0000
Epoch 2208/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0370 - accuracy:
1.0000
Epoch 2209/5000
1/1 [=====] - 0s 25ms/step - loss: 0.0370 - accuracy:
1.0000
Epoch 2210/5000
1/1 [=====] - 0s 25ms/step - loss: 0.0369 - accuracy:
1.0000
Epoch 2211/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0369 - accuracy:
1.0000
Epoch 2212/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0369 - accuracy:
1.0000
Epoch 2213/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0369 - accuracy:
1.0000

Epoch 2214/5000
1/1 [=====] - 0s 28ms/step - loss: 0.0369 - accuracy: 1.0000

Epoch 2215/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0369 - accuracy: 1.0000

Epoch 2216/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0369 - accuracy: 1.0000

Epoch 2217/5000
1/1 [=====] - 0s 24ms/step - loss: 0.0369 - accuracy: 1.0000

Epoch 2218/5000
1/1 [=====] - 0s 27ms/step - loss: 0.0368 - accuracy: 1.0000

Epoch 2219/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0368 - accuracy: 1.0000

Epoch 2220/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0368 - accuracy: 1.0000

Epoch 2221/5000
1/1 [=====] - 0s 24ms/step - loss: 0.0368 - accuracy: 1.0000

Epoch 2222/5000
1/1 [=====] - 0s 23ms/step - loss: 0.0368 - accuracy: 1.0000

Epoch 2223/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0368 - accuracy: 1.0000

Epoch 2224/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0368 - accuracy: 1.0000

Epoch 2225/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0367 - accuracy: 1.0000

Epoch 2226/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0367 - accuracy: 1.0000

Epoch 2227/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0367 - accuracy: 1.0000

Epoch 2228/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0367 - accuracy: 1.0000

Epoch 2229/5000
1/1 [=====] - 0s 26ms/step - loss: 0.0367 - accuracy: 1.0000

Epoch 2230/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0367 - accuracy:
1.0000
Epoch 2231/5000
1/1 [=====] - 0s 23ms/step - loss: 0.0367 - accuracy:
1.0000
Epoch 2232/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0366 - accuracy:
1.0000
Epoch 2233/5000
1/1 [=====] - 0s 24ms/step - loss: 0.0366 - accuracy:
1.0000
Epoch 2234/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0366 - accuracy:
1.0000
Epoch 2235/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0366 - accuracy:
1.0000
Epoch 2236/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0366 - accuracy:
1.0000
Epoch 2237/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0366 - accuracy:
1.0000
Epoch 2238/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0366 - accuracy:
1.0000
Epoch 2239/5000
1/1 [=====] - 0s 24ms/step - loss: 0.0365 - accuracy:
1.0000
Epoch 2240/5000
1/1 [=====] - 0s 25ms/step - loss: 0.0365 - accuracy:
1.0000
Epoch 2241/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0365 - accuracy:
1.0000
Epoch 2242/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0365 - accuracy:
1.0000
Epoch 2243/5000
1/1 [=====] - 0s 23ms/step - loss: 0.0365 - accuracy:
1.0000
Epoch 2244/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0365 - accuracy:
1.0000
Epoch 2245/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0365 - accuracy:
1.0000

Epoch 2246/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0365 - accuracy:
1.0000
Epoch 2247/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0364 - accuracy:
1.0000
Epoch 2248/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0364 - accuracy:
1.0000
Epoch 2249/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0364 - accuracy:
1.0000
Epoch 2250/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0364 - accuracy:
1.0000
Epoch 2251/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0364 - accuracy:
1.0000
Epoch 2252/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0364 - accuracy:
1.0000
Epoch 2253/5000
1/1 [=====] - 0s 24ms/step - loss: 0.0364 - accuracy:
1.0000
Epoch 2254/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0363 - accuracy:
1.0000
Epoch 2255/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0363 - accuracy:
1.0000
Epoch 2256/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0363 - accuracy:
1.0000
Epoch 2257/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0363 - accuracy:
1.0000
Epoch 2258/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0363 - accuracy:
1.0000
Epoch 2259/5000
1/1 [=====] - 0s 26ms/step - loss: 0.0363 - accuracy:
1.0000
Epoch 2260/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0363 - accuracy:
1.0000
Epoch 2261/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0363 - accuracy:
1.0000

Epoch 2262/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0362 - accuracy:
1.0000

Epoch 2263/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0362 - accuracy:
1.0000

Epoch 2264/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0362 - accuracy:
1.0000

Epoch 2265/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0362 - accuracy:
1.0000

Epoch 2266/5000
1/1 [=====] - 0s 29ms/step - loss: 0.0362 - accuracy:
1.0000

Epoch 2267/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0362 - accuracy:
1.0000

Epoch 2268/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0362 - accuracy:
1.0000

Epoch 2269/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0361 - accuracy:
1.0000

Epoch 2270/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0361 - accuracy:
1.0000

Epoch 2271/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0361 - accuracy:
1.0000

Epoch 2272/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0361 - accuracy:
1.0000

Epoch 2273/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0361 - accuracy:
1.0000

Epoch 2274/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0361 - accuracy:
1.0000

Epoch 2275/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0361 - accuracy:
1.0000

Epoch 2276/5000
1/1 [=====] - 0s 24ms/step - loss: 0.0360 - accuracy:
1.0000

Epoch 2277/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0360 - accuracy:
1.0000

Epoch 2278/5000
1/1 [=====] - 0s 24ms/step - loss: 0.0360 - accuracy: 1.0000

Epoch 2279/5000
1/1 [=====] - 0s 24ms/step - loss: 0.0360 - accuracy: 1.0000

Epoch 2280/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0360 - accuracy: 1.0000

Epoch 2281/5000
1/1 [=====] - 0s 24ms/step - loss: 0.0360 - accuracy: 1.0000

Epoch 2282/5000
1/1 [=====] - 0s 32ms/step - loss: 0.0360 - accuracy: 1.0000

Epoch 2283/5000
1/1 [=====] - 0s 23ms/step - loss: 0.0360 - accuracy: 1.0000

Epoch 2284/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0359 - accuracy: 1.0000

Epoch 2285/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0359 - accuracy: 1.0000

Epoch 2286/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0359 - accuracy: 1.0000

Epoch 2287/5000
1/1 [=====] - 0s 28ms/step - loss: 0.0359 - accuracy: 1.0000

Epoch 2288/5000
1/1 [=====] - 0s 23ms/step - loss: 0.0359 - accuracy: 1.0000

Epoch 2289/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0359 - accuracy: 1.0000

Epoch 2290/5000
1/1 [=====] - 0s 25ms/step - loss: 0.0359 - accuracy: 1.0000

Epoch 2291/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0358 - accuracy: 1.0000

Epoch 2292/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0358 - accuracy: 1.0000

Epoch 2293/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0358 - accuracy: 1.0000

Epoch 2294/5000
1/1 [=====] - 0s 25ms/step - loss: 0.0358 - accuracy:
1.0000

Epoch 2295/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0358 - accuracy:
1.0000

Epoch 2296/5000
1/1 [=====] - 0s 77ms/step - loss: 0.0358 - accuracy:
1.0000

Epoch 2297/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0358 - accuracy:
1.0000

Epoch 2298/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0358 - accuracy:
1.0000

Epoch 2299/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0357 - accuracy:
1.0000

Epoch 2300/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0357 - accuracy:
1.0000

Epoch 2301/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0357 - accuracy:
1.0000

Epoch 2302/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0357 - accuracy:
1.0000

Epoch 2303/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0357 - accuracy:
1.0000

Epoch 2304/5000
1/1 [=====] - 0s 28ms/step - loss: 0.0357 - accuracy:
1.0000

Epoch 2305/5000
1/1 [=====] - 0s 28ms/step - loss: 0.0357 - accuracy:
1.0000

Epoch 2306/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0356 - accuracy:
1.0000

Epoch 2307/5000
1/1 [=====] - 0s 24ms/step - loss: 0.0356 - accuracy:
1.0000

Epoch 2308/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0356 - accuracy:
1.0000

Epoch 2309/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0356 - accuracy:
1.0000

Epoch 2310/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0356 - accuracy:
1.0000

Epoch 2311/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0356 - accuracy:
1.0000

Epoch 2312/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0356 - accuracy:
1.0000

Epoch 2313/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0355 - accuracy:
1.0000

Epoch 2314/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0355 - accuracy:
1.0000

Epoch 2315/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0355 - accuracy:
1.0000

Epoch 2316/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0355 - accuracy:
1.0000

Epoch 2317/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0355 - accuracy:
1.0000

Epoch 2318/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0355 - accuracy:
1.0000

Epoch 2319/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0355 - accuracy:
1.0000

Epoch 2320/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0355 - accuracy:
1.0000

Epoch 2321/5000
1/1 [=====] - 0s 31ms/step - loss: 0.0354 - accuracy:
1.0000

Epoch 2322/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0354 - accuracy:
1.0000

Epoch 2323/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0354 - accuracy:
1.0000

Epoch 2324/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0354 - accuracy:
1.0000

Epoch 2325/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0354 - accuracy:
1.0000

Epoch 2326/5000
1/1 [=====] - 0s 24ms/step - loss: 0.0354 - accuracy:
1.0000
Epoch 2327/5000
1/1 [=====] - 0s 29ms/step - loss: 0.0354 - accuracy:
1.0000
Epoch 2328/5000
1/1 [=====] - 0s 26ms/step - loss: 0.0354 - accuracy:
1.0000
Epoch 2329/5000
1/1 [=====] - 0s 28ms/step - loss: 0.0353 - accuracy:
1.0000
Epoch 2330/5000
1/1 [=====] - 0s 27ms/step - loss: 0.0353 - accuracy:
1.0000
Epoch 2331/5000
1/1 [=====] - 0s 24ms/step - loss: 0.0353 - accuracy:
1.0000
Epoch 2332/5000
1/1 [=====] - 0s 32ms/step - loss: 0.0353 - accuracy:
1.0000
Epoch 2333/5000
1/1 [=====] - 0s 33ms/step - loss: 0.0353 - accuracy:
1.0000
Epoch 2334/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0353 - accuracy:
1.0000
Epoch 2335/5000
1/1 [=====] - 0s 28ms/step - loss: 0.0353 - accuracy:
1.0000
Epoch 2336/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0353 - accuracy:
1.0000
Epoch 2337/5000
1/1 [=====] - 0s 28ms/step - loss: 0.0352 - accuracy:
1.0000
Epoch 2338/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0352 - accuracy:
1.0000
Epoch 2339/5000
1/1 [=====] - 0s 24ms/step - loss: 0.0352 - accuracy:
1.0000
Epoch 2340/5000
1/1 [=====] - 0s 25ms/step - loss: 0.0352 - accuracy:
1.0000
Epoch 2341/5000
1/1 [=====] - 0s 31ms/step - loss: 0.0352 - accuracy:
1.0000

Epoch 2342/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0352 - accuracy:
1.0000
Epoch 2343/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0352 - accuracy:
1.0000
Epoch 2344/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0351 - accuracy:
1.0000
Epoch 2345/5000
1/1 [=====] - 0s 26ms/step - loss: 0.0351 - accuracy:
1.0000
Epoch 2346/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0351 - accuracy:
1.0000
Epoch 2347/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0351 - accuracy:
1.0000
Epoch 2348/5000
1/1 [=====] - 0s 30ms/step - loss: 0.0351 - accuracy:
1.0000
Epoch 2349/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0351 - accuracy:
1.0000
Epoch 2350/5000
1/1 [=====] - 0s 28ms/step - loss: 0.0351 - accuracy:
1.0000
Epoch 2351/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0351 - accuracy:
1.0000
Epoch 2352/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0350 - accuracy:
1.0000
Epoch 2353/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0350 - accuracy:
1.0000
Epoch 2354/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0350 - accuracy:
1.0000
Epoch 2355/5000
1/1 [=====] - 0s 32ms/step - loss: 0.0350 - accuracy:
1.0000
Epoch 2356/5000
1/1 [=====] - 0s 26ms/step - loss: 0.0350 - accuracy:
1.0000
Epoch 2357/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0350 - accuracy:
1.0000

Epoch 2358/5000
1/1 [=====] - 0s 28ms/step - loss: 0.0350 - accuracy:
1.0000
Epoch 2359/5000
1/1 [=====] - 0s 28ms/step - loss: 0.0349 - accuracy:
1.0000
Epoch 2360/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0349 - accuracy:
1.0000
Epoch 2361/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0349 - accuracy:
1.0000
Epoch 2362/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0349 - accuracy:
1.0000
Epoch 2363/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0349 - accuracy:
1.0000
Epoch 2364/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0349 - accuracy:
1.0000
Epoch 2365/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0349 - accuracy:
1.0000
Epoch 2366/5000
1/1 [=====] - 0s 30ms/step - loss: 0.0349 - accuracy:
1.0000
Epoch 2367/5000
1/1 [=====] - 0s 26ms/step - loss: 0.0348 - accuracy:
1.0000
Epoch 2368/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0348 - accuracy:
1.0000
Epoch 2369/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0348 - accuracy:
1.0000
Epoch 2370/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0348 - accuracy:
1.0000
Epoch 2371/5000
1/1 [=====] - 0s 26ms/step - loss: 0.0348 - accuracy:
1.0000
Epoch 2372/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0348 - accuracy:
1.0000
Epoch 2373/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0348 - accuracy:
1.0000

Epoch 2374/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0348 - accuracy:
1.0000
Epoch 2375/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0347 - accuracy:
1.0000
Epoch 2376/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0347 - accuracy:
1.0000
Epoch 2377/5000
1/1 [=====] - 0s 23ms/step - loss: 0.0347 - accuracy:
1.0000
Epoch 2378/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0347 - accuracy:
1.0000
Epoch 2379/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0347 - accuracy:
1.0000
Epoch 2380/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0347 - accuracy:
1.0000
Epoch 2381/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0347 - accuracy:
1.0000
Epoch 2382/5000
1/1 [=====] - 0s 23ms/step - loss: 0.0347 - accuracy:
1.0000
Epoch 2383/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0346 - accuracy:
1.0000
Epoch 2384/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0346 - accuracy:
1.0000
Epoch 2385/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0346 - accuracy:
1.0000
Epoch 2386/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0346 - accuracy:
1.0000
Epoch 2387/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0346 - accuracy:
1.0000
Epoch 2388/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0346 - accuracy:
1.0000
Epoch 2389/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0346 - accuracy:
1.0000

Epoch 2390/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0345 - accuracy:
1.0000

Epoch 2391/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0345 - accuracy:
1.0000

Epoch 2392/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0345 - accuracy:
1.0000

Epoch 2393/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0345 - accuracy:
1.0000

Epoch 2394/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0345 - accuracy:
1.0000

Epoch 2395/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0345 - accuracy:
1.0000

Epoch 2396/5000
1/1 [=====] - 0s 26ms/step - loss: 0.0345 - accuracy:
1.0000

Epoch 2397/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0345 - accuracy:
1.0000

Epoch 2398/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0344 - accuracy:
1.0000

Epoch 2399/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0344 - accuracy:
1.0000

Epoch 2400/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0344 - accuracy:
1.0000

Epoch 2401/5000
1/1 [=====] - 0s 26ms/step - loss: 0.0344 - accuracy:
1.0000

Epoch 2402/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0344 - accuracy:
1.0000

Epoch 2403/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0344 - accuracy:
1.0000

Epoch 2404/5000
1/1 [=====] - 0s 32ms/step - loss: 0.0344 - accuracy:
1.0000

Epoch 2405/5000
1/1 [=====] - 0s 33ms/step - loss: 0.0344 - accuracy:
1.0000

Epoch 2406/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0343 - accuracy:
1.0000
Epoch 2407/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0343 - accuracy:
1.0000
Epoch 2408/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0343 - accuracy:
1.0000
Epoch 2409/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0343 - accuracy:
1.0000
Epoch 2410/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0343 - accuracy:
1.0000
Epoch 2411/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0343 - accuracy:
1.0000
Epoch 2412/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0343 - accuracy:
1.0000
Epoch 2413/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0343 - accuracy:
1.0000
Epoch 2414/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0342 - accuracy:
1.0000
Epoch 2415/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0342 - accuracy:
1.0000
Epoch 2416/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0342 - accuracy:
1.0000
Epoch 2417/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0342 - accuracy:
1.0000
Epoch 2418/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0342 - accuracy:
1.0000
Epoch 2419/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0342 - accuracy:
1.0000
Epoch 2420/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0342 - accuracy:
1.0000
Epoch 2421/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0342 - accuracy:
1.0000

Epoch 2422/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0341 - accuracy: 1.0000

Epoch 2423/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0341 - accuracy: 1.0000

Epoch 2424/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0341 - accuracy: 1.0000

Epoch 2425/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0341 - accuracy: 1.0000

Epoch 2426/5000
1/1 [=====] - 0s 24ms/step - loss: 0.0341 - accuracy: 1.0000

Epoch 2427/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0341 - accuracy: 1.0000

Epoch 2428/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0341 - accuracy: 1.0000

Epoch 2429/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0341 - accuracy: 1.0000

Epoch 2430/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0340 - accuracy: 1.0000

Epoch 2431/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0340 - accuracy: 1.0000

Epoch 2432/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0340 - accuracy: 1.0000

Epoch 2433/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0340 - accuracy: 1.0000

Epoch 2434/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0340 - accuracy: 1.0000

Epoch 2435/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0340 - accuracy: 1.0000

Epoch 2436/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0340 - accuracy: 1.0000

Epoch 2437/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0340 - accuracy: 1.0000

Epoch 2438/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0339 - accuracy: 1.0000

Epoch 2439/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0339 - accuracy: 1.0000

Epoch 2440/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0339 - accuracy: 1.0000

Epoch 2441/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0339 - accuracy: 1.0000

Epoch 2442/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0339 - accuracy: 1.0000

Epoch 2443/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0339 - accuracy: 1.0000

Epoch 2444/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0339 - accuracy: 1.0000

Epoch 2445/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0339 - accuracy: 1.0000

Epoch 2446/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0338 - accuracy: 1.0000

Epoch 2447/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0338 - accuracy: 1.0000

Epoch 2448/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0338 - accuracy: 1.0000

Epoch 2449/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0338 - accuracy: 1.0000

Epoch 2450/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0338 - accuracy: 1.0000

Epoch 2451/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0338 - accuracy: 1.0000

Epoch 2452/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0338 - accuracy: 1.0000

Epoch 2453/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0338 - accuracy: 1.0000

Epoch 2454/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0337 - accuracy:
1.0000

Epoch 2455/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0337 - accuracy:
1.0000

Epoch 2456/5000
1/1 [=====] - 0s 33ms/step - loss: 0.0337 - accuracy:
1.0000

Epoch 2457/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0337 - accuracy:
1.0000

Epoch 2458/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0337 - accuracy:
1.0000

Epoch 2459/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0337 - accuracy:
1.0000

Epoch 2460/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0337 - accuracy:
1.0000

Epoch 2461/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0337 - accuracy:
1.0000

Epoch 2462/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0336 - accuracy:
1.0000

Epoch 2463/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0336 - accuracy:
1.0000

Epoch 2464/5000
1/1 [=====] - 0s 32ms/step - loss: 0.0336 - accuracy:
1.0000

Epoch 2465/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0336 - accuracy:
1.0000

Epoch 2466/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0336 - accuracy:
1.0000

Epoch 2467/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0336 - accuracy:
1.0000

Epoch 2468/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0336 - accuracy:
1.0000

Epoch 2469/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0336 - accuracy:
1.0000

Epoch 2470/5000
1/1 [=====] - 0s 25ms/step - loss: 0.0335 - accuracy:
1.0000

Epoch 2471/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0335 - accuracy:
1.0000

Epoch 2472/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0335 - accuracy:
1.0000

Epoch 2473/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0335 - accuracy:
1.0000

Epoch 2474/5000
1/1 [=====] - 0s 26ms/step - loss: 0.0335 - accuracy:
1.0000

Epoch 2475/5000
1/1 [=====] - 0s 32ms/step - loss: 0.0335 - accuracy:
1.0000

Epoch 2476/5000
1/1 [=====] - 0s 24ms/step - loss: 0.0335 - accuracy:
1.0000

Epoch 2477/5000
1/1 [=====] - 0s 27ms/step - loss: 0.0335 - accuracy:
1.0000

Epoch 2478/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0334 - accuracy:
1.0000

Epoch 2479/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0334 - accuracy:
1.0000

Epoch 2480/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0334 - accuracy:
1.0000

Epoch 2481/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0334 - accuracy:
1.0000

Epoch 2482/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0334 - accuracy:
1.0000

Epoch 2483/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0334 - accuracy:
1.0000

Epoch 2484/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0334 - accuracy:
1.0000

Epoch 2485/5000
1/1 [=====] - 0s 23ms/step - loss: 0.0334 - accuracy:
1.0000

Epoch 2486/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0333 - accuracy:
1.0000
Epoch 2487/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0333 - accuracy:
1.0000
Epoch 2488/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0333 - accuracy:
1.0000
Epoch 2489/5000
1/1 [=====] - 0s 29ms/step - loss: 0.0333 - accuracy:
1.0000
Epoch 2490/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0333 - accuracy:
1.0000
Epoch 2491/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0333 - accuracy:
1.0000
Epoch 2492/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0333 - accuracy:
1.0000
Epoch 2493/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0333 - accuracy:
1.0000
Epoch 2494/5000
1/1 [=====] - 0s 24ms/step - loss: 0.0332 - accuracy:
1.0000
Epoch 2495/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0332 - accuracy:
1.0000
Epoch 2496/5000
1/1 [=====] - 0s 27ms/step - loss: 0.0332 - accuracy:
1.0000
Epoch 2497/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0332 - accuracy:
1.0000
Epoch 2498/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0332 - accuracy:
1.0000
Epoch 2499/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0332 - accuracy:
1.0000
Epoch 2500/5000
1/1 [=====] - 0s 33ms/step - loss: 0.0332 - accuracy:
1.0000
Epoch 2501/5000
1/1 [=====] - 0s 29ms/step - loss: 0.0332 - accuracy:
1.0000

Epoch 2502/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0331 - accuracy:
1.0000
Epoch 2503/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0331 - accuracy:
1.0000
Epoch 2504/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0331 - accuracy:
1.0000
Epoch 2505/5000
1/1 [=====] - 0s 24ms/step - loss: 0.0331 - accuracy:
1.0000
Epoch 2506/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0331 - accuracy:
1.0000
Epoch 2507/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0331 - accuracy:
1.0000
Epoch 2508/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0331 - accuracy:
1.0000
Epoch 2509/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0331 - accuracy:
1.0000
Epoch 2510/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0331 - accuracy:
1.0000
Epoch 2511/5000
1/1 [=====] - 0s 27ms/step - loss: 0.0330 - accuracy:
1.0000
Epoch 2512/5000
1/1 [=====] - 0s 26ms/step - loss: 0.0330 - accuracy:
1.0000
Epoch 2513/5000
1/1 [=====] - 0s 23ms/step - loss: 0.0330 - accuracy:
1.0000
Epoch 2514/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0330 - accuracy:
1.0000
Epoch 2515/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0330 - accuracy:
1.0000
Epoch 2516/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0330 - accuracy:
1.0000
Epoch 2517/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0330 - accuracy:
1.0000

Epoch 2518/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0330 - accuracy:
1.0000

Epoch 2519/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0329 - accuracy:
1.0000

Epoch 2520/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0329 - accuracy:
1.0000

Epoch 2521/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0329 - accuracy:
1.0000

Epoch 2522/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0329 - accuracy:
1.0000

Epoch 2523/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0329 - accuracy:
1.0000

Epoch 2524/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0329 - accuracy:
1.0000

Epoch 2525/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0329 - accuracy:
1.0000

Epoch 2526/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0329 - accuracy:
1.0000

Epoch 2527/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0328 - accuracy:
1.0000

Epoch 2528/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0328 - accuracy:
1.0000

Epoch 2529/5000
1/1 [=====] - 0s 0s/step - loss: 0.0328 - accuracy:
1.0000

Epoch 2530/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0328 - accuracy:
1.0000

Epoch 2531/5000
1/1 [=====] - 0s 0s/step - loss: 0.0328 - accuracy:
1.0000

Epoch 2532/5000
1/1 [=====] - 0s 0s/step - loss: 0.0328 - accuracy:
1.0000

Epoch 2533/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0328 - accuracy:
1.0000

Epoch 2534/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0328 - accuracy:
1.0000

Epoch 2535/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0327 - accuracy:
1.0000

Epoch 2536/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0327 - accuracy:
1.0000

Epoch 2537/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0327 - accuracy:
1.0000

Epoch 2538/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0327 - accuracy:
1.0000

Epoch 2539/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0327 - accuracy:
1.0000

Epoch 2540/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0327 - accuracy:
1.0000

Epoch 2541/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0327 - accuracy:
1.0000

Epoch 2542/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0327 - accuracy:
1.0000

Epoch 2543/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0326 - accuracy:
1.0000

Epoch 2544/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0326 - accuracy:
1.0000

Epoch 2545/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0326 - accuracy:
1.0000

Epoch 2546/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0326 - accuracy:
1.0000

Epoch 2547/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0326 - accuracy:
1.0000

Epoch 2548/5000
1/1 [=====] - 0s 39ms/step - loss: 0.0326 - accuracy:
1.0000

Epoch 2549/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0326 - accuracy:
1.0000

Epoch 2550/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0326 - accuracy: 1.0000

Epoch 2551/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0326 - accuracy: 1.0000

Epoch 2552/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0325 - accuracy: 1.0000

Epoch 2553/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0325 - accuracy: 1.0000

Epoch 2554/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0325 - accuracy: 1.0000

Epoch 2555/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0325 - accuracy: 1.0000

Epoch 2556/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0325 - accuracy: 1.0000

Epoch 2557/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0325 - accuracy: 1.0000

Epoch 2558/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0325 - accuracy: 1.0000

Epoch 2559/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0325 - accuracy: 1.0000

Epoch 2560/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0324 - accuracy: 1.0000

Epoch 2561/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0324 - accuracy: 1.0000

Epoch 2562/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0324 - accuracy: 1.0000

Epoch 2563/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0324 - accuracy: 1.0000

Epoch 2564/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0324 - accuracy: 1.0000

Epoch 2565/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0324 - accuracy: 1.0000

Epoch 2566/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0324 - accuracy: 1.0000

Epoch 2567/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0324 - accuracy: 1.0000

Epoch 2568/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0324 - accuracy: 1.0000

Epoch 2569/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0323 - accuracy: 1.0000

Epoch 2570/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0323 - accuracy: 1.0000

Epoch 2571/5000
1/1 [=====] - 0s 0s/step - loss: 0.0323 - accuracy: 1.0000

Epoch 2572/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0323 - accuracy: 1.0000

Epoch 2573/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0323 - accuracy: 1.0000

Epoch 2574/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0323 - accuracy: 1.0000

Epoch 2575/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0323 - accuracy: 1.0000

Epoch 2576/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0323 - accuracy: 1.0000

Epoch 2577/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0322 - accuracy: 1.0000

Epoch 2578/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0322 - accuracy: 1.0000

Epoch 2579/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0322 - accuracy: 1.0000

Epoch 2580/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0322 - accuracy: 1.0000

Epoch 2581/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0322 - accuracy: 1.0000

Epoch 2582/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0322 - accuracy:
1.0000

Epoch 2583/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0322 - accuracy:
1.0000

Epoch 2584/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0322 - accuracy:
1.0000

Epoch 2585/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0321 - accuracy:
1.0000

Epoch 2586/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0321 - accuracy:
1.0000

Epoch 2587/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0321 - accuracy:
1.0000

Epoch 2588/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0321 - accuracy:
1.0000

Epoch 2589/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0321 - accuracy:
1.0000

Epoch 2590/5000
1/1 [=====] - 0s 31ms/step - loss: 0.0321 - accuracy:
1.0000

Epoch 2591/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0321 - accuracy:
1.0000

Epoch 2592/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0321 - accuracy:
1.0000

Epoch 2593/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0321 - accuracy:
1.0000

Epoch 2594/5000
1/1 [=====] - 0s 5ms/step - loss: 0.0320 - accuracy:
1.0000

Epoch 2595/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0320 - accuracy:
1.0000

Epoch 2596/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0320 - accuracy:
1.0000

Epoch 2597/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0320 - accuracy:
1.0000

Epoch 2598/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0320 - accuracy:
1.0000
Epoch 2599/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0320 - accuracy:
1.0000
Epoch 2600/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0320 - accuracy:
1.0000
Epoch 2601/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0320 - accuracy:
1.0000
Epoch 2602/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0319 - accuracy:
1.0000
Epoch 2603/5000
1/1 [=====] - 0s 0s/step - loss: 0.0319 - accuracy:
1.0000
Epoch 2604/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0319 - accuracy:
1.0000
Epoch 2605/5000
1/1 [=====] - 0s 5ms/step - loss: 0.0319 - accuracy:
1.0000
Epoch 2606/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0319 - accuracy:
1.0000
Epoch 2607/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0319 - accuracy:
1.0000
Epoch 2608/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0319 - accuracy:
1.0000
Epoch 2609/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0319 - accuracy:
1.0000
Epoch 2610/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0319 - accuracy:
1.0000
Epoch 2611/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0318 - accuracy:
1.0000
Epoch 2612/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0318 - accuracy:
1.0000
Epoch 2613/5000
1/1 [=====] - 0s 0s/step - loss: 0.0318 - accuracy:
1.0000

Epoch 2614/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0318 - accuracy:
1.0000

Epoch 2615/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0318 - accuracy:
1.0000

Epoch 2616/5000
1/1 [=====] - 0s 23ms/step - loss: 0.0318 - accuracy:
1.0000

Epoch 2617/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0318 - accuracy:
1.0000

Epoch 2618/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0318 - accuracy:
1.0000

Epoch 2619/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0318 - accuracy:
1.0000

Epoch 2620/5000
1/1 [=====] - 0s 0s/step - loss: 0.0317 - accuracy:
1.0000

Epoch 2621/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0317 - accuracy:
1.0000

Epoch 2622/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0317 - accuracy:
1.0000

Epoch 2623/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0317 - accuracy:
1.0000

Epoch 2624/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0317 - accuracy:
1.0000

Epoch 2625/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0317 - accuracy:
1.0000

Epoch 2626/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0317 - accuracy:
1.0000

Epoch 2627/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0317 - accuracy:
1.0000

Epoch 2628/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0316 - accuracy:
1.0000

Epoch 2629/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0316 - accuracy:
1.0000

Epoch 2630/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0316 - accuracy:
1.0000
Epoch 2631/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0316 - accuracy:
1.0000
Epoch 2632/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0316 - accuracy:
1.0000
Epoch 2633/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0316 - accuracy:
1.0000
Epoch 2634/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0316 - accuracy:
1.0000
Epoch 2635/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0316 - accuracy:
1.0000
Epoch 2636/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0315 - accuracy:
1.0000
Epoch 2637/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0315 - accuracy:
1.0000
Epoch 2638/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0315 - accuracy:
1.0000
Epoch 2639/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0315 - accuracy:
1.0000
Epoch 2640/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0315 - accuracy:
1.0000
Epoch 2641/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0315 - accuracy:
1.0000
Epoch 2642/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0315 - accuracy:
1.0000
Epoch 2643/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0315 - accuracy:
1.0000
Epoch 2644/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0315 - accuracy:
1.0000
Epoch 2645/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0314 - accuracy:
1.0000

Epoch 2646/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0314 - accuracy:
1.0000
Epoch 2647/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0314 - accuracy:
1.0000
Epoch 2648/5000
1/1 [=====] - 0s 0s/step - loss: 0.0314 - accuracy:
1.0000
Epoch 2649/5000
1/1 [=====] - 0s 0s/step - loss: 0.0314 - accuracy:
1.0000
Epoch 2650/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0314 - accuracy:
1.0000
Epoch 2651/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0314 - accuracy:
1.0000
Epoch 2652/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0314 - accuracy:
1.0000
Epoch 2653/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0314 - accuracy:
1.0000
Epoch 2654/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0313 - accuracy:
1.0000
Epoch 2655/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0313 - accuracy:
1.0000
Epoch 2656/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0313 - accuracy:
1.0000
Epoch 2657/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0313 - accuracy:
1.0000
Epoch 2658/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0313 - accuracy:
1.0000
Epoch 2659/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0313 - accuracy:
1.0000
Epoch 2660/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0313 - accuracy:
1.0000
Epoch 2661/5000
1/1 [=====] - 0s 0s/step - loss: 0.0313 - accuracy:
1.0000

Epoch 2662/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0313 - accuracy:
1.0000

Epoch 2663/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0312 - accuracy:
1.0000

Epoch 2664/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0312 - accuracy:
1.0000

Epoch 2665/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0312 - accuracy:
1.0000

Epoch 2666/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0312 - accuracy:
1.0000

Epoch 2667/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0312 - accuracy:
1.0000

Epoch 2668/5000
1/1 [=====] - 0s 0s/step - loss: 0.0312 - accuracy:
1.0000

Epoch 2669/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0312 - accuracy:
1.0000

Epoch 2670/5000
1/1 [=====] - 0s 0s/step - loss: 0.0312 - accuracy:
1.0000

Epoch 2671/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0311 - accuracy:
1.0000

Epoch 2672/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0311 - accuracy:
1.0000

Epoch 2673/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0311 - accuracy:
1.0000

Epoch 2674/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0311 - accuracy:
1.0000

Epoch 2675/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0311 - accuracy:
1.0000

Epoch 2676/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0311 - accuracy:
1.0000

Epoch 2677/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0311 - accuracy:
1.0000

Epoch 2678/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0311 - accuracy:
1.0000

Epoch 2679/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0311 - accuracy:
1.0000

Epoch 2680/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0310 - accuracy:
1.0000

Epoch 2681/5000
1/1 [=====] - 0s 0s/step - loss: 0.0310 - accuracy:
1.0000

Epoch 2682/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0310 - accuracy:
1.0000

Epoch 2683/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0310 - accuracy:
1.0000

Epoch 2684/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0310 - accuracy:
1.0000

Epoch 2685/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0310 - accuracy:
1.0000

Epoch 2686/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0310 - accuracy:
1.0000

Epoch 2687/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0310 - accuracy:
1.0000

Epoch 2688/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0310 - accuracy:
1.0000

Epoch 2689/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0309 - accuracy:
1.0000

Epoch 2690/5000
1/1 [=====] - 0s 0s/step - loss: 0.0309 - accuracy:
1.0000

Epoch 2691/5000
1/1 [=====] - 0s 0s/step - loss: 0.0309 - accuracy:
1.0000

Epoch 2692/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0309 - accuracy:
1.0000

Epoch 2693/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0309 - accuracy:
1.0000

Epoch 2694/5000
1/1 [=====] - 0s 23ms/step - loss: 0.0309 - accuracy:
1.0000

Epoch 2695/5000
1/1 [=====] - 0s 0s/step - loss: 0.0309 - accuracy:
1.0000

Epoch 2696/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0309 - accuracy:
1.0000

Epoch 2697/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0309 - accuracy:
1.0000

Epoch 2698/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0308 - accuracy:
1.0000

Epoch 2699/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0308 - accuracy:
1.0000

Epoch 2700/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0308 - accuracy:
1.0000

Epoch 2701/5000
1/1 [=====] - 0s 0s/step - loss: 0.0308 - accuracy:
1.0000

Epoch 2702/5000
1/1 [=====] - 0s 0s/step - loss: 0.0308 - accuracy:
1.0000

Epoch 2703/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0308 - accuracy:
1.0000

Epoch 2704/5000
1/1 [=====] - 0s 0s/step - loss: 0.0308 - accuracy:
1.0000

Epoch 2705/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0308 - accuracy:
1.0000

Epoch 2706/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0308 - accuracy:
1.0000

Epoch 2707/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0307 - accuracy:
1.0000

Epoch 2708/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0307 - accuracy:
1.0000

Epoch 2709/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0307 - accuracy:
1.0000

Epoch 2710/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0307 - accuracy:
1.0000

Epoch 2711/5000
1/1 [=====] - 0s 0s/step - loss: 0.0307 - accuracy:
1.0000

Epoch 2712/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0307 - accuracy:
1.0000

Epoch 2713/5000
1/1 [=====] - 0s 25ms/step - loss: 0.0307 - accuracy:
1.0000

Epoch 2714/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0307 - accuracy:
1.0000

Epoch 2715/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0306 - accuracy:
1.0000

Epoch 2716/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0306 - accuracy:
1.0000

Epoch 2717/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0306 - accuracy:
1.0000

Epoch 2718/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0306 - accuracy:
1.0000

Epoch 2719/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0306 - accuracy:
1.0000

Epoch 2720/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0306 - accuracy:
1.0000

Epoch 2721/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0306 - accuracy:
1.0000

Epoch 2722/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0306 - accuracy:
1.0000

Epoch 2723/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0306 - accuracy:
1.0000

Epoch 2724/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0305 - accuracy:
1.0000

Epoch 2725/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0305 - accuracy:
1.0000

Epoch 2726/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0305 - accuracy:
1.0000
Epoch 2727/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0305 - accuracy:
1.0000
Epoch 2728/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0305 - accuracy:
1.0000
Epoch 2729/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0305 - accuracy:
1.0000
Epoch 2730/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0305 - accuracy:
1.0000
Epoch 2731/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0305 - accuracy:
1.0000
Epoch 2732/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0305 - accuracy:
1.0000
Epoch 2733/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0304 - accuracy:
1.0000
Epoch 2734/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0304 - accuracy:
1.0000
Epoch 2735/5000
1/1 [=====] - 0s 27ms/step - loss: 0.0304 - accuracy:
1.0000
Epoch 2736/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0304 - accuracy:
1.0000
Epoch 2737/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0304 - accuracy:
1.0000
Epoch 2738/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0304 - accuracy:
1.0000
Epoch 2739/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0304 - accuracy:
1.0000
Epoch 2740/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0304 - accuracy:
1.0000
Epoch 2741/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0304 - accuracy:
1.0000

Epoch 2742/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0303 - accuracy: 1.0000

Epoch 2743/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0303 - accuracy: 1.0000

Epoch 2744/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0303 - accuracy: 1.0000

Epoch 2745/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0303 - accuracy: 1.0000

Epoch 2746/5000
1/1 [=====] - 0s 0s/step - loss: 0.0303 - accuracy: 1.0000

Epoch 2747/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0303 - accuracy: 1.0000

Epoch 2748/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0303 - accuracy: 1.0000

Epoch 2749/5000
1/1 [=====] - 0s 3ms/step - loss: 0.0303 - accuracy: 1.0000

Epoch 2750/5000
1/1 [=====] - 0s 0s/step - loss: 0.0303 - accuracy: 1.0000

Epoch 2751/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0302 - accuracy: 1.0000

Epoch 2752/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0302 - accuracy: 1.0000

Epoch 2753/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0302 - accuracy: 1.0000

Epoch 2754/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0302 - accuracy: 1.0000

Epoch 2755/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0302 - accuracy: 1.0000

Epoch 2756/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0302 - accuracy: 1.0000

Epoch 2757/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0302 - accuracy: 1.0000

Epoch 2758/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0302 - accuracy:
1.0000

Epoch 2759/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0302 - accuracy:
1.0000

Epoch 2760/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0301 - accuracy:
1.0000

Epoch 2761/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0301 - accuracy:
1.0000

Epoch 2762/5000
1/1 [=====] - 0s 3ms/step - loss: 0.0301 - accuracy:
1.0000

Epoch 2763/5000
1/1 [=====] - 0s 0s/step - loss: 0.0301 - accuracy:
1.0000

Epoch 2764/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0301 - accuracy:
1.0000

Epoch 2765/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0301 - accuracy:
1.0000

Epoch 2766/5000
1/1 [=====] - 0s 3ms/step - loss: 0.0301 - accuracy:
1.0000

Epoch 2767/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0301 - accuracy:
1.0000

Epoch 2768/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0301 - accuracy:
1.0000

Epoch 2769/5000
1/1 [=====] - 0s 0s/step - loss: 0.0301 - accuracy:
1.0000

Epoch 2770/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0300 - accuracy:
1.0000

Epoch 2771/5000
1/1 [=====] - 0s 0s/step - loss: 0.0300 - accuracy:
1.0000

Epoch 2772/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0300 - accuracy:
1.0000

Epoch 2773/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0300 - accuracy:
1.0000

Epoch 2774/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0300 - accuracy: 1.0000

Epoch 2775/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0300 - accuracy: 1.0000

Epoch 2776/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0300 - accuracy: 1.0000

Epoch 2777/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0300 - accuracy: 1.0000

Epoch 2778/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0300 - accuracy: 1.0000

Epoch 2779/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0299 - accuracy: 1.0000

Epoch 2780/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0299 - accuracy: 1.0000

Epoch 2781/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0299 - accuracy: 1.0000

Epoch 2782/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0299 - accuracy: 1.0000

Epoch 2783/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0299 - accuracy: 1.0000

Epoch 2784/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0299 - accuracy: 1.0000

Epoch 2785/5000
1/1 [=====] - 0s 5ms/step - loss: 0.0299 - accuracy: 1.0000

Epoch 2786/5000
1/1 [=====] - 0s 0s/step - loss: 0.0299 - accuracy: 1.0000

Epoch 2787/5000
1/1 [=====] - 0s 3ms/step - loss: 0.0299 - accuracy: 1.0000

Epoch 2788/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0298 - accuracy: 1.0000

Epoch 2789/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0298 - accuracy: 1.0000

Epoch 2790/5000
1/1 [=====] - 0s 0s/step - loss: 0.0298 - accuracy:
1.0000
Epoch 2791/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0298 - accuracy:
1.0000
Epoch 2792/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0298 - accuracy:
1.0000
Epoch 2793/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0298 - accuracy:
1.0000
Epoch 2794/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0298 - accuracy:
1.0000
Epoch 2795/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0298 - accuracy:
1.0000
Epoch 2796/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0298 - accuracy:
1.0000
Epoch 2797/5000
1/1 [=====] - 0s 0s/step - loss: 0.0297 - accuracy:
1.0000
Epoch 2798/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0297 - accuracy:
1.0000
Epoch 2799/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0297 - accuracy:
1.0000
Epoch 2800/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0297 - accuracy:
1.0000
Epoch 2801/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0297 - accuracy:
1.0000
Epoch 2802/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0297 - accuracy:
1.0000
Epoch 2803/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0297 - accuracy:
1.0000
Epoch 2804/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0297 - accuracy:
1.0000
Epoch 2805/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0297 - accuracy:
1.0000

Epoch 2806/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0296 - accuracy:
1.0000

Epoch 2807/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0296 - accuracy:
1.0000

Epoch 2808/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0296 - accuracy:
1.0000

Epoch 2809/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0296 - accuracy:
1.0000

Epoch 2810/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0296 - accuracy:
1.0000

Epoch 2811/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0296 - accuracy:
1.0000

Epoch 2812/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0296 - accuracy:
1.0000

Epoch 2813/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0296 - accuracy:
1.0000

Epoch 2814/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0296 - accuracy:
1.0000

Epoch 2815/5000
1/1 [=====] - 0s 0s/step - loss: 0.0295 - accuracy:
1.0000

Epoch 2816/5000
1/1 [=====] - 0s 0s/step - loss: 0.0295 - accuracy:
1.0000

Epoch 2817/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0295 - accuracy:
1.0000

Epoch 2818/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0295 - accuracy:
1.0000

Epoch 2819/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0295 - accuracy:
1.0000

Epoch 2820/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0295 - accuracy:
1.0000

Epoch 2821/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0295 - accuracy:
1.0000

Epoch 2822/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0295 - accuracy:
1.0000

Epoch 2823/5000
1/1 [=====] - 0s 0s/step - loss: 0.0295 - accuracy:
1.0000

Epoch 2824/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0294 - accuracy:
1.0000

Epoch 2825/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0294 - accuracy:
1.0000

Epoch 2826/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0294 - accuracy:
1.0000

Epoch 2827/5000
1/1 [=====] - 0s 0s/step - loss: 0.0294 - accuracy:
1.0000

Epoch 2828/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0294 - accuracy:
1.0000

Epoch 2829/5000
1/1 [=====] - 0s 0s/step - loss: 0.0294 - accuracy:
1.0000

Epoch 2830/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0294 - accuracy:
1.0000

Epoch 2831/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0294 - accuracy:
1.0000

Epoch 2832/5000
1/1 [=====] - 0s 0s/step - loss: 0.0294 - accuracy:
1.0000

Epoch 2833/5000
1/1 [=====] - 0s 0s/step - loss: 0.0294 - accuracy:
1.0000

Epoch 2834/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0293 - accuracy:
1.0000

Epoch 2835/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0293 - accuracy:
1.0000

Epoch 2836/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0293 - accuracy:
1.0000

Epoch 2837/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0293 - accuracy:
1.0000

Epoch 2838/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0293 - accuracy:
1.0000

Epoch 2839/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0293 - accuracy:
1.0000

Epoch 2840/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0293 - accuracy:
1.0000

Epoch 2841/5000
1/1 [=====] - 0s 0s/step - loss: 0.0293 - accuracy:
1.0000

Epoch 2842/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0293 - accuracy:
1.0000

Epoch 2843/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0292 - accuracy:
1.0000

Epoch 2844/5000
1/1 [=====] - 0s 0s/step - loss: 0.0292 - accuracy:
1.0000

Epoch 2845/5000
1/1 [=====] - 0s 0s/step - loss: 0.0292 - accuracy:
1.0000

Epoch 2846/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0292 - accuracy:
1.0000

Epoch 2847/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0292 - accuracy:
1.0000

Epoch 2848/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0292 - accuracy:
1.0000

Epoch 2849/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0292 - accuracy:
1.0000

Epoch 2850/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0292 - accuracy:
1.0000

Epoch 2851/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0292 - accuracy:
1.0000

Epoch 2852/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0291 - accuracy:
1.0000

Epoch 2853/5000
1/1 [=====] - 0s 5ms/step - loss: 0.0291 - accuracy:
1.0000

Epoch 2854/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0291 - accuracy:
1.0000
Epoch 2855/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0291 - accuracy:
1.0000
Epoch 2856/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0291 - accuracy:
1.0000
Epoch 2857/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0291 - accuracy:
1.0000
Epoch 2858/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0291 - accuracy:
1.0000
Epoch 2859/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0291 - accuracy:
1.0000
Epoch 2860/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0291 - accuracy:
1.0000
Epoch 2861/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0291 - accuracy:
1.0000
Epoch 2862/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0290 - accuracy:
1.0000
Epoch 2863/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0290 - accuracy:
1.0000
Epoch 2864/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0290 - accuracy:
1.0000
Epoch 2865/5000
1/1 [=====] - 0s 5ms/step - loss: 0.0290 - accuracy:
1.0000
Epoch 2866/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0290 - accuracy:
1.0000
Epoch 2867/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0290 - accuracy:
1.0000
Epoch 2868/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0290 - accuracy:
1.0000
Epoch 2869/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0290 - accuracy:
1.0000

Epoch 2870/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0290 - accuracy:
1.0000
Epoch 2871/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0289 - accuracy:
1.0000
Epoch 2872/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0289 - accuracy:
1.0000
Epoch 2873/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0289 - accuracy:
1.0000
Epoch 2874/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0289 - accuracy:
1.0000
Epoch 2875/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0289 - accuracy:
1.0000
Epoch 2876/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0289 - accuracy:
1.0000
Epoch 2877/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0289 - accuracy:
1.0000
Epoch 2878/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0289 - accuracy:
1.0000
Epoch 2879/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0289 - accuracy:
1.0000
Epoch 2880/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0289 - accuracy:
1.0000
Epoch 2881/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0288 - accuracy:
1.0000
Epoch 2882/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0288 - accuracy:
1.0000
Epoch 2883/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0288 - accuracy:
1.0000
Epoch 2884/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0288 - accuracy:
1.0000
Epoch 2885/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0288 - accuracy:
1.0000

Epoch 2886/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0288 - accuracy:
1.0000
Epoch 2887/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0288 - accuracy:
1.0000
Epoch 2888/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0288 - accuracy:
1.0000
Epoch 2889/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0288 - accuracy:
1.0000
Epoch 2890/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0287 - accuracy:
1.0000
Epoch 2891/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0287 - accuracy:
1.0000
Epoch 2892/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0287 - accuracy:
1.0000
Epoch 2893/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0287 - accuracy:
1.0000
Epoch 2894/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0287 - accuracy:
1.0000
Epoch 2895/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0287 - accuracy:
1.0000
Epoch 2896/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0287 - accuracy:
1.0000
Epoch 2897/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0287 - accuracy:
1.0000
Epoch 2898/5000
1/1 [=====] - 0s 0s/step - loss: 0.0287 - accuracy:
1.0000
Epoch 2899/5000
1/1 [=====] - 0s 0s/step - loss: 0.0287 - accuracy:
1.0000
Epoch 2900/5000
1/1 [=====] - 0s 0s/step - loss: 0.0286 - accuracy:
1.0000
Epoch 2901/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0286 - accuracy:
1.0000

Epoch 2902/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0286 - accuracy:
1.0000

Epoch 2903/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0286 - accuracy:
1.0000

Epoch 2904/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0286 - accuracy:
1.0000

Epoch 2905/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0286 - accuracy:
1.0000

Epoch 2906/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0286 - accuracy:
1.0000

Epoch 2907/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0286 - accuracy:
1.0000

Epoch 2908/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0286 - accuracy:
1.0000

Epoch 2909/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0286 - accuracy:
1.0000

Epoch 2910/5000
1/1 [=====] - 0s 0s/step - loss: 0.0285 - accuracy:
1.0000

Epoch 2911/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0285 - accuracy:
1.0000

Epoch 2912/5000
1/1 [=====] - 0s 0s/step - loss: 0.0285 - accuracy:
1.0000

Epoch 2913/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0285 - accuracy:
1.0000

Epoch 2914/5000
1/1 [=====] - 0s 5ms/step - loss: 0.0285 - accuracy:
1.0000

Epoch 2915/5000
1/1 [=====] - 0s 27ms/step - loss: 0.0285 - accuracy:
1.0000

Epoch 2916/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0285 - accuracy:
1.0000

Epoch 2917/5000
1/1 [=====] - 0s 0s/step - loss: 0.0285 - accuracy:
1.0000

Epoch 2918/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0285 - accuracy:
1.0000
Epoch 2919/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0284 - accuracy:
1.0000
Epoch 2920/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0284 - accuracy:
1.0000
Epoch 2921/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0284 - accuracy:
1.0000
Epoch 2922/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0284 - accuracy:
1.0000
Epoch 2923/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0284 - accuracy:
1.0000
Epoch 2924/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0284 - accuracy:
1.0000
Epoch 2925/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0284 - accuracy:
1.0000
Epoch 2926/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0284 - accuracy:
1.0000
Epoch 2927/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0284 - accuracy:
1.0000
Epoch 2928/5000
1/1 [=====] - 0s 0s/step - loss: 0.0284 - accuracy:
1.0000
Epoch 2929/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0283 - accuracy:
1.0000
Epoch 2930/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0283 - accuracy:
1.0000
Epoch 2931/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0283 - accuracy:
1.0000
Epoch 2932/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0283 - accuracy:
1.0000
Epoch 2933/5000
1/1 [=====] - 0s 30ms/step - loss: 0.0283 - accuracy:
1.0000

Epoch 2934/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0283 - accuracy:
1.0000

Epoch 2935/5000
1/1 [=====] - 0s 25ms/step - loss: 0.0283 - accuracy:
1.0000

Epoch 2936/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0283 - accuracy:
1.0000

Epoch 2937/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0283 - accuracy:
1.0000

Epoch 2938/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0282 - accuracy:
1.0000

Epoch 2939/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0282 - accuracy:
1.0000

Epoch 2940/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0282 - accuracy:
1.0000

Epoch 2941/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0282 - accuracy:
1.0000

Epoch 2942/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0282 - accuracy:
1.0000

Epoch 2943/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0282 - accuracy:
1.0000

Epoch 2944/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0282 - accuracy:
1.0000

Epoch 2945/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0282 - accuracy:
1.0000

Epoch 2946/5000
1/1 [=====] - 0s 0s/step - loss: 0.0282 - accuracy:
1.0000

Epoch 2947/5000
1/1 [=====] - 0s 0s/step - loss: 0.0282 - accuracy:
1.0000

Epoch 2948/5000
1/1 [=====] - 0s 3ms/step - loss: 0.0281 - accuracy:
1.0000

Epoch 2949/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0281 - accuracy:
1.0000

Epoch 2950/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0281 - accuracy:
1.0000
Epoch 2951/5000
1/1 [=====] - 0s 0s/step - loss: 0.0281 - accuracy:
1.0000
Epoch 2952/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0281 - accuracy:
1.0000
Epoch 2953/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0281 - accuracy:
1.0000
Epoch 2954/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0281 - accuracy:
1.0000
Epoch 2955/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0281 - accuracy:
1.0000
Epoch 2956/5000
1/1 [=====] - 0s 24ms/step - loss: 0.0281 - accuracy:
1.0000
Epoch 2957/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0281 - accuracy:
1.0000
Epoch 2958/5000
1/1 [=====] - 0s 34ms/step - loss: 0.0280 - accuracy:
1.0000
Epoch 2959/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0280 - accuracy:
1.0000
Epoch 2960/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0280 - accuracy:
1.0000
Epoch 2961/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0280 - accuracy:
1.0000
Epoch 2962/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0280 - accuracy:
1.0000
Epoch 2963/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0280 - accuracy:
1.0000
Epoch 2964/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0280 - accuracy:
1.0000
Epoch 2965/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0280 - accuracy:
1.0000

Epoch 2966/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0280 - accuracy:
1.0000
Epoch 2967/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0280 - accuracy:
1.0000
Epoch 2968/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0279 - accuracy:
1.0000
Epoch 2969/5000
1/1 [=====] - 0s 5ms/step - loss: 0.0279 - accuracy:
1.0000
Epoch 2970/5000
1/1 [=====] - 0s 0s/step - loss: 0.0279 - accuracy:
1.0000
Epoch 2971/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0279 - accuracy:
1.0000
Epoch 2972/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0279 - accuracy:
1.0000
Epoch 2973/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0279 - accuracy:
1.0000
Epoch 2974/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0279 - accuracy:
1.0000
Epoch 2975/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0279 - accuracy:
1.0000
Epoch 2976/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0279 - accuracy:
1.0000
Epoch 2977/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0279 - accuracy:
1.0000
Epoch 2978/5000
1/1 [=====] - 0s 0s/step - loss: 0.0278 - accuracy:
1.0000
Epoch 2979/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0278 - accuracy:
1.0000
Epoch 2980/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0278 - accuracy:
1.0000
Epoch 2981/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0278 - accuracy:
1.0000

Epoch 2982/5000
1/1 [=====] - 0s 0s/step - loss: 0.0278 - accuracy:
1.0000

Epoch 2983/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0278 - accuracy:
1.0000

Epoch 2984/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0278 - accuracy:
1.0000

Epoch 2985/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0278 - accuracy:
1.0000

Epoch 2986/5000
1/1 [=====] - 0s 0s/step - loss: 0.0278 - accuracy:
1.0000

Epoch 2987/5000
1/1 [=====] - 0s 0s/step - loss: 0.0278 - accuracy:
1.0000

Epoch 2988/5000
1/1 [=====] - 0s 0s/step - loss: 0.0277 - accuracy:
1.0000

Epoch 2989/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0277 - accuracy:
1.0000

Epoch 2990/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0277 - accuracy:
1.0000

Epoch 2991/5000
1/1 [=====] - 0s 0s/step - loss: 0.0277 - accuracy:
1.0000

Epoch 2992/5000
1/1 [=====] - 0s 0s/step - loss: 0.0277 - accuracy:
1.0000

Epoch 2993/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0277 - accuracy:
1.0000

Epoch 2994/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0277 - accuracy:
1.0000

Epoch 2995/5000
1/1 [=====] - 0s 0s/step - loss: 0.0277 - accuracy:
1.0000

Epoch 2996/5000
1/1 [=====] - 0s 0s/step - loss: 0.0277 - accuracy:
1.0000

Epoch 2997/5000
1/1 [=====] - 0s 0s/step - loss: 0.0277 - accuracy:
1.0000

Epoch 2998/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0276 - accuracy: 1.0000

Epoch 2999/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0276 - accuracy: 1.0000

Epoch 3000/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0276 - accuracy: 1.0000

Epoch 3001/5000
1/1 [=====] - 0s 0s/step - loss: 0.0276 - accuracy: 1.0000

Epoch 3002/5000
1/1 [=====] - 0s 0s/step - loss: 0.0276 - accuracy: 1.0000

Epoch 3003/5000
1/1 [=====] - 0s 0s/step - loss: 0.0276 - accuracy: 1.0000

Epoch 3004/5000
1/1 [=====] - 0s 0s/step - loss: 0.0276 - accuracy: 1.0000

Epoch 3005/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0276 - accuracy: 1.0000

Epoch 3006/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0276 - accuracy: 1.0000

Epoch 3007/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0276 - accuracy: 1.0000

Epoch 3008/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0275 - accuracy: 1.0000

Epoch 3009/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0275 - accuracy: 1.0000

Epoch 3010/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0275 - accuracy: 1.0000

Epoch 3011/5000
1/1 [=====] - 0s 0s/step - loss: 0.0275 - accuracy: 1.0000

Epoch 3012/5000
1/1 [=====] - 0s 0s/step - loss: 0.0275 - accuracy: 1.0000

Epoch 3013/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0275 - accuracy: 1.0000

Epoch 3014/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0275 - accuracy:
1.0000

Epoch 3015/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0275 - accuracy:
1.0000

Epoch 3016/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0275 - accuracy:
1.0000

Epoch 3017/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0275 - accuracy:
1.0000

Epoch 3018/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0274 - accuracy:
1.0000

Epoch 3019/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0274 - accuracy:
1.0000

Epoch 3020/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0274 - accuracy:
1.0000

Epoch 3021/5000
1/1 [=====] - 0s 0s/step - loss: 0.0274 - accuracy:
1.0000

Epoch 3022/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0274 - accuracy:
1.0000

Epoch 3023/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0274 - accuracy:
1.0000

Epoch 3024/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0274 - accuracy:
1.0000

Epoch 3025/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0274 - accuracy:
1.0000

Epoch 3026/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0274 - accuracy:
1.0000

Epoch 3027/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0274 - accuracy:
1.0000

Epoch 3028/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0273 - accuracy:
1.0000

Epoch 3029/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0273 - accuracy:
1.0000

Epoch 3030/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0273 - accuracy:
1.0000
Epoch 3031/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0273 - accuracy:
1.0000
Epoch 3032/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0273 - accuracy:
1.0000
Epoch 3033/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0273 - accuracy:
1.0000
Epoch 3034/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0273 - accuracy:
1.0000
Epoch 3035/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0273 - accuracy:
1.0000
Epoch 3036/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0273 - accuracy:
1.0000
Epoch 3037/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0273 - accuracy:
1.0000
Epoch 3038/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0272 - accuracy:
1.0000
Epoch 3039/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0272 - accuracy:
1.0000
Epoch 3040/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0272 - accuracy:
1.0000
Epoch 3041/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0272 - accuracy:
1.0000
Epoch 3042/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0272 - accuracy:
1.0000
Epoch 3043/5000
1/1 [=====] - 0s 0s/step - loss: 0.0272 - accuracy:
1.0000
Epoch 3044/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0272 - accuracy:
1.0000
Epoch 3045/5000
1/1 [=====] - 0s 0s/step - loss: 0.0272 - accuracy:
1.0000

Epoch 3046/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0272 - accuracy: 1.0000

Epoch 3047/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0272 - accuracy: 1.0000

Epoch 3048/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0272 - accuracy: 1.0000

Epoch 3049/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0271 - accuracy: 1.0000

Epoch 3050/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0271 - accuracy: 1.0000

Epoch 3051/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0271 - accuracy: 1.0000

Epoch 3052/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0271 - accuracy: 1.0000

Epoch 3053/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0271 - accuracy: 1.0000

Epoch 3054/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0271 - accuracy: 1.0000

Epoch 3055/5000
1/1 [=====] - 0s 0s/step - loss: 0.0271 - accuracy: 1.0000

Epoch 3056/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0271 - accuracy: 1.0000

Epoch 3057/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0271 - accuracy: 1.0000

Epoch 3058/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0270 - accuracy: 1.0000

Epoch 3059/5000
1/1 [=====] - 0s 0s/step - loss: 0.0270 - accuracy: 1.0000

Epoch 3060/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0270 - accuracy: 1.0000

Epoch 3061/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0270 - accuracy: 1.0000

Epoch 3062/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0270 - accuracy:
1.0000

Epoch 3063/5000
1/1 [=====] - 0s 5ms/step - loss: 0.0270 - accuracy:
1.0000

Epoch 3064/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0270 - accuracy:
1.0000

Epoch 3065/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0270 - accuracy:
1.0000

Epoch 3066/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0270 - accuracy:
1.0000

Epoch 3067/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0270 - accuracy:
1.0000

Epoch 3068/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0270 - accuracy:
1.0000

Epoch 3069/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0269 - accuracy:
1.0000

Epoch 3070/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0269 - accuracy:
1.0000

Epoch 3071/5000
1/1 [=====] - 0s 0s/step - loss: 0.0269 - accuracy:
1.0000

Epoch 3072/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0269 - accuracy:
1.0000

Epoch 3073/5000
1/1 [=====] - 0s 0s/step - loss: 0.0269 - accuracy:
1.0000

Epoch 3074/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0269 - accuracy:
1.0000

Epoch 3075/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0269 - accuracy:
1.0000

Epoch 3076/5000
1/1 [=====] - 0s 0s/step - loss: 0.0269 - accuracy:
1.0000

Epoch 3077/5000
1/1 [=====] - 0s 0s/step - loss: 0.0269 - accuracy:
1.0000

Epoch 3078/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0269 - accuracy:
1.0000

Epoch 3079/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0268 - accuracy:
1.0000

Epoch 3080/5000
1/1 [=====] - 0s 0s/step - loss: 0.0268 - accuracy:
1.0000

Epoch 3081/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0268 - accuracy:
1.0000

Epoch 3082/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0268 - accuracy:
1.0000

Epoch 3083/5000
1/1 [=====] - 0s 0s/step - loss: 0.0268 - accuracy:
1.0000

Epoch 3084/5000
1/1 [=====] - 0s 0s/step - loss: 0.0268 - accuracy:
1.0000

Epoch 3085/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0268 - accuracy:
1.0000

Epoch 3086/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0268 - accuracy:
1.0000

Epoch 3087/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0268 - accuracy:
1.0000

Epoch 3088/5000
1/1 [=====] - 0s 0s/step - loss: 0.0268 - accuracy:
1.0000

Epoch 3089/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0267 - accuracy:
1.0000

Epoch 3090/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0267 - accuracy:
1.0000

Epoch 3091/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0267 - accuracy:
1.0000

Epoch 3092/5000
1/1 [=====] - 0s 0s/step - loss: 0.0267 - accuracy:
1.0000

Epoch 3093/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0267 - accuracy:
1.0000

Epoch 3094/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0267 - accuracy: 1.0000

Epoch 3095/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0267 - accuracy: 1.0000

Epoch 3096/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0267 - accuracy: 1.0000

Epoch 3097/5000
1/1 [=====] - 0s 0s/step - loss: 0.0267 - accuracy: 1.0000

Epoch 3098/5000
1/1 [=====] - 0s 3ms/step - loss: 0.0267 - accuracy: 1.0000

Epoch 3099/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0266 - accuracy: 1.0000

Epoch 3100/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0266 - accuracy: 1.0000

Epoch 3101/5000
1/1 [=====] - 0s 0s/step - loss: 0.0266 - accuracy: 1.0000

Epoch 3102/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0266 - accuracy: 1.0000

Epoch 3103/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0266 - accuracy: 1.0000

Epoch 3104/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0266 - accuracy: 1.0000

Epoch 3105/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0266 - accuracy: 1.0000

Epoch 3106/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0266 - accuracy: 1.0000

Epoch 3107/5000
1/1 [=====] - 0s 0s/step - loss: 0.0266 - accuracy: 1.0000

Epoch 3108/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0266 - accuracy: 1.0000

Epoch 3109/5000
1/1 [=====] - 0s 0s/step - loss: 0.0265 - accuracy: 1.0000

Epoch 3110/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0265 - accuracy:
1.0000

Epoch 3111/5000
1/1 [=====] - 0s 0s/step - loss: 0.0265 - accuracy:
1.0000

Epoch 3112/5000
1/1 [=====] - 0s 0s/step - loss: 0.0265 - accuracy:
1.0000

Epoch 3113/5000
1/1 [=====] - 0s 23ms/step - loss: 0.0265 - accuracy:
1.0000

Epoch 3114/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0265 - accuracy:
1.0000

Epoch 3115/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0265 - accuracy:
1.0000

Epoch 3116/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0265 - accuracy:
1.0000

Epoch 3117/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0265 - accuracy:
1.0000

Epoch 3118/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0265 - accuracy:
1.0000

Epoch 3119/5000
1/1 [=====] - 0s 0s/step - loss: 0.0265 - accuracy:
1.0000

Epoch 3120/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0264 - accuracy:
1.0000

Epoch 3121/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0264 - accuracy:
1.0000

Epoch 3122/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0264 - accuracy:
1.0000

Epoch 3123/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0264 - accuracy:
1.0000

Epoch 3124/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0264 - accuracy:
1.0000

Epoch 3125/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0264 - accuracy:
1.0000

Epoch 3126/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0264 - accuracy:
1.0000
Epoch 3127/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0264 - accuracy:
1.0000
Epoch 3128/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0264 - accuracy:
1.0000
Epoch 3129/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0264 - accuracy:
1.0000
Epoch 3130/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0264 - accuracy:
1.0000
Epoch 3131/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0263 - accuracy:
1.0000
Epoch 3132/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0263 - accuracy:
1.0000
Epoch 3133/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0263 - accuracy:
1.0000
Epoch 3134/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0263 - accuracy:
1.0000
Epoch 3135/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0263 - accuracy:
1.0000
Epoch 3136/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0263 - accuracy:
1.0000
Epoch 3137/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0263 - accuracy:
1.0000
Epoch 3138/5000
1/1 [=====] - 0s 0s/step - loss: 0.0263 - accuracy:
1.0000
Epoch 3139/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0263 - accuracy:
1.0000
Epoch 3140/5000
1/1 [=====] - 0s 0s/step - loss: 0.0263 - accuracy:
1.0000
Epoch 3141/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0263 - accuracy:
1.0000

Epoch 3142/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0262 - accuracy:
1.0000
Epoch 3143/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0262 - accuracy:
1.0000
Epoch 3144/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0262 - accuracy:
1.0000
Epoch 3145/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0262 - accuracy:
1.0000
Epoch 3146/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0262 - accuracy:
1.0000
Epoch 3147/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0262 - accuracy:
1.0000
Epoch 3148/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0262 - accuracy:
1.0000
Epoch 3149/5000
1/1 [=====] - 0s 47ms/step - loss: 0.0262 - accuracy:
1.0000
Epoch 3150/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0262 - accuracy:
1.0000
Epoch 3151/5000
1/1 [=====] - 0s 0s/step - loss: 0.0262 - accuracy:
1.0000
Epoch 3152/5000
1/1 [=====] - 0s 0s/step - loss: 0.0261 - accuracy:
1.0000
Epoch 3153/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0261 - accuracy:
1.0000
Epoch 3154/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0261 - accuracy:
1.0000
Epoch 3155/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0261 - accuracy:
1.0000
Epoch 3156/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0261 - accuracy:
1.0000
Epoch 3157/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0261 - accuracy:
1.0000

Epoch 3158/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0261 - accuracy:
1.0000
Epoch 3159/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0261 - accuracy:
1.0000
Epoch 3160/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0261 - accuracy:
1.0000
Epoch 3161/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0261 - accuracy:
1.0000
Epoch 3162/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0261 - accuracy:
1.0000
Epoch 3163/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0260 - accuracy:
1.0000
Epoch 3164/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0260 - accuracy:
1.0000
Epoch 3165/5000
1/1 [=====] - 0s 0s/step - loss: 0.0260 - accuracy:
1.0000
Epoch 3166/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0260 - accuracy:
1.0000
Epoch 3167/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0260 - accuracy:
1.0000
Epoch 3168/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0260 - accuracy:
1.0000
Epoch 3169/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0260 - accuracy:
1.0000
Epoch 3170/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0260 - accuracy:
1.0000
Epoch 3171/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0260 - accuracy:
1.0000
Epoch 3172/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0260 - accuracy:
1.0000
Epoch 3173/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0260 - accuracy:
1.0000

Epoch 3174/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0259 - accuracy: 1.0000

Epoch 3175/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0259 - accuracy: 1.0000

Epoch 3176/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0259 - accuracy: 1.0000

Epoch 3177/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0259 - accuracy: 1.0000

Epoch 3178/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0259 - accuracy: 1.0000

Epoch 3179/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0259 - accuracy: 1.0000

Epoch 3180/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0259 - accuracy: 1.0000

Epoch 3181/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0259 - accuracy: 1.0000

Epoch 3182/5000
1/1 [=====] - 0s 0s/step - loss: 0.0259 - accuracy: 1.0000

Epoch 3183/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0259 - accuracy: 1.0000

Epoch 3184/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0258 - accuracy: 1.0000

Epoch 3185/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0258 - accuracy: 1.0000

Epoch 3186/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0258 - accuracy: 1.0000

Epoch 3187/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0258 - accuracy: 1.0000

Epoch 3188/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0258 - accuracy: 1.0000

Epoch 3189/5000
1/1 [=====] - 0s 25ms/step - loss: 0.0258 - accuracy: 1.0000

Epoch 3190/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0258 - accuracy:
1.0000

Epoch 3191/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0258 - accuracy:
1.0000

Epoch 3192/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0258 - accuracy:
1.0000

Epoch 3193/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0258 - accuracy:
1.0000

Epoch 3194/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0258 - accuracy:
1.0000

Epoch 3195/5000
1/1 [=====] - 0s 0s/step - loss: 0.0257 - accuracy:
1.0000

Epoch 3196/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0257 - accuracy:
1.0000

Epoch 3197/5000
1/1 [=====] - 0s 0s/step - loss: 0.0257 - accuracy:
1.0000

Epoch 3198/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0257 - accuracy:
1.0000

Epoch 3199/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0257 - accuracy:
1.0000

Epoch 3200/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0257 - accuracy:
1.0000

Epoch 3201/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0257 - accuracy:
1.0000

Epoch 3202/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0257 - accuracy:
1.0000

Epoch 3203/5000
1/1 [=====] - 0s 5ms/step - loss: 0.0257 - accuracy:
1.0000

Epoch 3204/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0257 - accuracy:
1.0000

Epoch 3205/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0256 - accuracy:
1.0000

Epoch 3206/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0256 - accuracy:
1.0000

Epoch 3207/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0256 - accuracy:
1.0000

Epoch 3208/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0256 - accuracy:
1.0000

Epoch 3209/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0256 - accuracy:
1.0000

Epoch 3210/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0256 - accuracy:
1.0000

Epoch 3211/5000
1/1 [=====] - 0s 0s/step - loss: 0.0256 - accuracy:
1.0000

Epoch 3212/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0256 - accuracy:
1.0000

Epoch 3213/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0256 - accuracy:
1.0000

Epoch 3214/5000
1/1 [=====] - 0s 0s/step - loss: 0.0256 - accuracy:
1.0000

Epoch 3215/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0256 - accuracy:
1.0000

Epoch 3216/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0255 - accuracy:
1.0000

Epoch 3217/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0255 - accuracy:
1.0000

Epoch 3218/5000
1/1 [=====] - 0s 0s/step - loss: 0.0255 - accuracy:
1.0000

Epoch 3219/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0255 - accuracy:
1.0000

Epoch 3220/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0255 - accuracy:
1.0000

Epoch 3221/5000
1/1 [=====] - 0s 0s/step - loss: 0.0255 - accuracy:
1.0000

Epoch 3222/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0255 - accuracy:
1.0000
Epoch 3223/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0255 - accuracy:
1.0000
Epoch 3224/5000
1/1 [=====] - 0s 0s/step - loss: 0.0255 - accuracy:
1.0000
Epoch 3225/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0255 - accuracy:
1.0000
Epoch 3226/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0255 - accuracy:
1.0000
Epoch 3227/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0254 - accuracy:
1.0000
Epoch 3228/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0254 - accuracy:
1.0000
Epoch 3229/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0254 - accuracy:
1.0000
Epoch 3230/5000
1/1 [=====] - 0s 0s/step - loss: 0.0254 - accuracy:
1.0000
Epoch 3231/5000
1/1 [=====] - 0s 0s/step - loss: 0.0254 - accuracy:
1.0000
Epoch 3232/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0254 - accuracy:
1.0000
Epoch 3233/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0254 - accuracy:
1.0000
Epoch 3234/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0254 - accuracy:
1.0000
Epoch 3235/5000
1/1 [=====] - 0s 0s/step - loss: 0.0254 - accuracy:
1.0000
Epoch 3236/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0254 - accuracy:
1.0000
Epoch 3237/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0254 - accuracy:
1.0000

Epoch 3238/5000
1/1 [=====] - 0s 0s/step - loss: 0.0254 - accuracy:
1.0000

Epoch 3239/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0253 - accuracy:
1.0000

Epoch 3240/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0253 - accuracy:
1.0000

Epoch 3241/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0253 - accuracy:
1.0000

Epoch 3242/5000
1/1 [=====] - 0s 0s/step - loss: 0.0253 - accuracy:
1.0000

Epoch 3243/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0253 - accuracy:
1.0000

Epoch 3244/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0253 - accuracy:
1.0000

Epoch 3245/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0253 - accuracy:
1.0000

Epoch 3246/5000
1/1 [=====] - 0s 25ms/step - loss: 0.0253 - accuracy:
1.0000

Epoch 3247/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0253 - accuracy:
1.0000

Epoch 3248/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0253 - accuracy:
1.0000

Epoch 3249/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0252 - accuracy:
1.0000

Epoch 3250/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0252 - accuracy:
1.0000

Epoch 3251/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0252 - accuracy:
1.0000

Epoch 3252/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0252 - accuracy:
1.0000

Epoch 3253/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0252 - accuracy:
1.0000

Epoch 3254/5000
1/1 [=====] - 0s 0s/step - loss: 0.0252 - accuracy:
1.0000

Epoch 3255/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0252 - accuracy:
1.0000

Epoch 3256/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0252 - accuracy:
1.0000

Epoch 3257/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0252 - accuracy:
1.0000

Epoch 3258/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0252 - accuracy:
1.0000

Epoch 3259/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0252 - accuracy:
1.0000

Epoch 3260/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0251 - accuracy:
1.0000

Epoch 3261/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0251 - accuracy:
1.0000

Epoch 3262/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0251 - accuracy:
1.0000

Epoch 3263/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0251 - accuracy:
1.0000

Epoch 3264/5000
1/1 [=====] - 0s 5ms/step - loss: 0.0251 - accuracy:
1.0000

Epoch 3265/5000
1/1 [=====] - 0s 0s/step - loss: 0.0251 - accuracy:
1.0000

Epoch 3266/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0251 - accuracy:
1.0000

Epoch 3267/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0251 - accuracy:
1.0000

Epoch 3268/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0251 - accuracy:
1.0000

Epoch 3269/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0251 - accuracy:
1.0000

Epoch 3270/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0251 - accuracy:
1.0000

Epoch 3271/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0250 - accuracy:
1.0000

Epoch 3272/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0250 - accuracy:
1.0000

Epoch 3273/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0250 - accuracy:
1.0000

Epoch 3274/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0250 - accuracy:
1.0000

Epoch 3275/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0250 - accuracy:
1.0000

Epoch 3276/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0250 - accuracy:
1.0000

Epoch 3277/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0250 - accuracy:
1.0000

Epoch 3278/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0250 - accuracy:
1.0000

Epoch 3279/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0250 - accuracy:
1.0000

Epoch 3280/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0250 - accuracy:
1.0000

Epoch 3281/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0250 - accuracy:
1.0000

Epoch 3282/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0249 - accuracy:
1.0000

Epoch 3283/5000
1/1 [=====] - 0s 25ms/step - loss: 0.0249 - accuracy:
1.0000

Epoch 3284/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0249 - accuracy:
1.0000

Epoch 3285/5000
1/1 [=====] - 0s 24ms/step - loss: 0.0249 - accuracy:
1.0000

Epoch 3286/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0249 - accuracy:
1.0000
Epoch 3287/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0249 - accuracy:
1.0000
Epoch 3288/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0249 - accuracy:
1.0000
Epoch 3289/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0249 - accuracy:
1.0000
Epoch 3290/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0249 - accuracy:
1.0000
Epoch 3291/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0249 - accuracy:
1.0000
Epoch 3292/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0249 - accuracy:
1.0000
Epoch 3293/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0248 - accuracy:
1.0000
Epoch 3294/5000
1/1 [=====] - 0s 0s/step - loss: 0.0248 - accuracy:
1.0000
Epoch 3295/5000
1/1 [=====] - 0s 0s/step - loss: 0.0248 - accuracy:
1.0000
Epoch 3296/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0248 - accuracy:
1.0000
Epoch 3297/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0248 - accuracy:
1.0000
Epoch 3298/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0248 - accuracy:
1.0000
Epoch 3299/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0248 - accuracy:
1.0000
Epoch 3300/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0248 - accuracy:
1.0000
Epoch 3301/5000
1/1 [=====] - 0s 0s/step - loss: 0.0248 - accuracy:
1.0000

Epoch 3302/5000
1/1 [=====] - 0s 0s/step - loss: 0.0248 - accuracy:
1.0000
Epoch 3303/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0248 - accuracy:
1.0000
Epoch 3304/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0248 - accuracy:
1.0000
Epoch 3305/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0247 - accuracy:
1.0000
Epoch 3306/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0247 - accuracy:
1.0000
Epoch 3307/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0247 - accuracy:
1.0000
Epoch 3308/5000
1/1 [=====] - 0s 3ms/step - loss: 0.0247 - accuracy:
1.0000
Epoch 3309/5000
1/1 [=====] - 0s 5ms/step - loss: 0.0247 - accuracy:
1.0000
Epoch 3310/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0247 - accuracy:
1.0000
Epoch 3311/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0247 - accuracy:
1.0000
Epoch 3312/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0247 - accuracy:
1.0000
Epoch 3313/5000
1/1 [=====] - 0s 0s/step - loss: 0.0247 - accuracy:
1.0000
Epoch 3314/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0247 - accuracy:
1.0000
Epoch 3315/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0247 - accuracy:
1.0000
Epoch 3316/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0247 - accuracy:
1.0000
Epoch 3317/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0246 - accuracy:
1.0000

Epoch 3318/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0246 - accuracy:
1.0000

Epoch 3319/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0246 - accuracy:
1.0000

Epoch 3320/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0246 - accuracy:
1.0000

Epoch 3321/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0246 - accuracy:
1.0000

Epoch 3322/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0246 - accuracy:
1.0000

Epoch 3323/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0246 - accuracy:
1.0000

Epoch 3324/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0246 - accuracy:
1.0000

Epoch 3325/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0246 - accuracy:
1.0000

Epoch 3326/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0246 - accuracy:
1.0000

Epoch 3327/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0245 - accuracy:
1.0000

Epoch 3328/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0245 - accuracy:
1.0000

Epoch 3329/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0245 - accuracy:
1.0000

Epoch 3330/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0245 - accuracy:
1.0000

Epoch 3331/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0245 - accuracy:
1.0000

Epoch 3332/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0245 - accuracy:
1.0000

Epoch 3333/5000
1/1 [=====] - 0s 0s/step - loss: 0.0245 - accuracy:
1.0000

Epoch 3334/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0245 - accuracy:
1.0000
Epoch 3335/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0245 - accuracy:
1.0000
Epoch 3336/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0245 - accuracy:
1.0000
Epoch 3337/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0245 - accuracy:
1.0000
Epoch 3338/5000
1/1 [=====] - 0s 0s/step - loss: 0.0245 - accuracy:
1.0000
Epoch 3339/5000
1/1 [=====] - 0s 0s/step - loss: 0.0244 - accuracy:
1.0000
Epoch 3340/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0244 - accuracy:
1.0000
Epoch 3341/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0244 - accuracy:
1.0000
Epoch 3342/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0244 - accuracy:
1.0000
Epoch 3343/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0244 - accuracy:
1.0000
Epoch 3344/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0244 - accuracy:
1.0000
Epoch 3345/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0244 - accuracy:
1.0000
Epoch 3346/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0244 - accuracy:
1.0000
Epoch 3347/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0244 - accuracy:
1.0000
Epoch 3348/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0244 - accuracy:
1.0000
Epoch 3349/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0244 - accuracy:
1.0000

Epoch 3350/5000
1/1 [=====] - 0s 0s/step - loss: 0.0243 - accuracy:
1.0000

Epoch 3351/5000
1/1 [=====] - 0s 23ms/step - loss: 0.0243 - accuracy:
1.0000

Epoch 3352/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0243 - accuracy:
1.0000

Epoch 3353/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0243 - accuracy:
1.0000

Epoch 3354/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0243 - accuracy:
1.0000

Epoch 3355/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0243 - accuracy:
1.0000

Epoch 3356/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0243 - accuracy:
1.0000

Epoch 3357/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0243 - accuracy:
1.0000

Epoch 3358/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0243 - accuracy:
1.0000

Epoch 3359/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0243 - accuracy:
1.0000

Epoch 3360/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0243 - accuracy:
1.0000

Epoch 3361/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0242 - accuracy:
1.0000

Epoch 3362/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0242 - accuracy:
1.0000

Epoch 3363/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0242 - accuracy:
1.0000

Epoch 3364/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0242 - accuracy:
1.0000

Epoch 3365/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0242 - accuracy:
1.0000

Epoch 3366/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0242 - accuracy:
1.0000

Epoch 3367/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0242 - accuracy:
1.0000

Epoch 3368/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0242 - accuracy:
1.0000

Epoch 3369/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0242 - accuracy:
1.0000

Epoch 3370/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0242 - accuracy:
1.0000

Epoch 3371/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0242 - accuracy:
1.0000

Epoch 3372/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0242 - accuracy:
1.0000

Epoch 3373/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0241 - accuracy:
1.0000

Epoch 3374/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0241 - accuracy:
1.0000

Epoch 3375/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0241 - accuracy:
1.0000

Epoch 3376/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0241 - accuracy:
1.0000

Epoch 3377/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0241 - accuracy:
1.0000

Epoch 3378/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0241 - accuracy:
1.0000

Epoch 3379/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0241 - accuracy:
1.0000

Epoch 3380/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0241 - accuracy:
1.0000

Epoch 3381/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0241 - accuracy:
1.0000

Epoch 3382/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0241 - accuracy:
1.0000
Epoch 3383/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0241 - accuracy:
1.0000
Epoch 3384/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0241 - accuracy:
1.0000
Epoch 3385/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0240 - accuracy:
1.0000
Epoch 3386/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0240 - accuracy:
1.0000
Epoch 3387/5000
1/1 [=====] - 0s 0s/step - loss: 0.0240 - accuracy:
1.0000
Epoch 3388/5000
1/1 [=====] - 0s 0s/step - loss: 0.0240 - accuracy:
1.0000
Epoch 3389/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0240 - accuracy:
1.0000
Epoch 3390/5000
1/1 [=====] - 0s 27ms/step - loss: 0.0240 - accuracy:
1.0000
Epoch 3391/5000
1/1 [=====] - 0s 0s/step - loss: 0.0240 - accuracy:
1.0000
Epoch 3392/5000
1/1 [=====] - 0s 0s/step - loss: 0.0240 - accuracy:
1.0000
Epoch 3393/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0240 - accuracy:
1.0000
Epoch 3394/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0240 - accuracy:
1.0000
Epoch 3395/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0240 - accuracy:
1.0000
Epoch 3396/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0239 - accuracy:
1.0000
Epoch 3397/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0239 - accuracy:
1.0000

Epoch 3398/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0239 - accuracy:
1.0000
Epoch 3399/5000
1/1 [=====] - 0s 0s/step - loss: 0.0239 - accuracy:
1.0000
Epoch 3400/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0239 - accuracy:
1.0000
Epoch 3401/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0239 - accuracy:
1.0000
Epoch 3402/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0239 - accuracy:
1.0000
Epoch 3403/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0239 - accuracy:
1.0000
Epoch 3404/5000
1/1 [=====] - 0s 0s/step - loss: 0.0239 - accuracy:
1.0000
Epoch 3405/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0239 - accuracy:
1.0000
Epoch 3406/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0239 - accuracy:
1.0000
Epoch 3407/5000
1/1 [=====] - 0s 0s/step - loss: 0.0239 - accuracy:
1.0000
Epoch 3408/5000
1/1 [=====] - 0s 0s/step - loss: 0.0238 - accuracy:
1.0000
Epoch 3409/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0238 - accuracy:
1.0000
Epoch 3410/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0238 - accuracy:
1.0000
Epoch 3411/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0238 - accuracy:
1.0000
Epoch 3412/5000
1/1 [=====] - 0s 0s/step - loss: 0.0238 - accuracy:
1.0000
Epoch 3413/5000
1/1 [=====] - 0s 0s/step - loss: 0.0238 - accuracy:
1.0000

Epoch 3414/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0238 - accuracy: 1.0000

Epoch 3415/5000
1/1 [=====] - 0s 0s/step - loss: 0.0238 - accuracy: 1.0000

Epoch 3416/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0238 - accuracy: 1.0000

Epoch 3417/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0238 - accuracy: 1.0000

Epoch 3418/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0238 - accuracy: 1.0000

Epoch 3419/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0237 - accuracy: 1.0000

Epoch 3420/5000
1/1 [=====] - 0s 0s/step - loss: 0.0237 - accuracy: 1.0000

Epoch 3421/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0237 - accuracy: 1.0000

Epoch 3422/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0237 - accuracy: 1.0000

Epoch 3423/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0237 - accuracy: 1.0000

Epoch 3424/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0237 - accuracy: 1.0000

Epoch 3425/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0237 - accuracy: 1.0000

Epoch 3426/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0237 - accuracy: 1.0000

Epoch 3427/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0237 - accuracy: 1.0000

Epoch 3428/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0237 - accuracy: 1.0000

Epoch 3429/5000
1/1 [=====] - 0s 0s/step - loss: 0.0237 - accuracy: 1.0000

Epoch 3430/5000
1/1 [=====] - 0s 0s/step - loss: 0.0237 - accuracy:
1.0000

Epoch 3431/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0237 - accuracy:
1.0000

Epoch 3432/5000
1/1 [=====] - 0s 0s/step - loss: 0.0236 - accuracy:
1.0000

Epoch 3433/5000
1/1 [=====] - 0s 0s/step - loss: 0.0236 - accuracy:
1.0000

Epoch 3434/5000
1/1 [=====] - 0s 0s/step - loss: 0.0236 - accuracy:
1.0000

Epoch 3435/5000
1/1 [=====] - 0s 0s/step - loss: 0.0236 - accuracy:
1.0000

Epoch 3436/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0236 - accuracy:
1.0000

Epoch 3437/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0236 - accuracy:
1.0000

Epoch 3438/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0236 - accuracy:
1.0000

Epoch 3439/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0236 - accuracy:
1.0000

Epoch 3440/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0236 - accuracy:
1.0000

Epoch 3441/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0236 - accuracy:
1.0000

Epoch 3442/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0236 - accuracy:
1.0000

Epoch 3443/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0236 - accuracy:
1.0000

Epoch 3444/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0235 - accuracy:
1.0000

Epoch 3445/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0235 - accuracy:
1.0000

Epoch 3446/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0235 - accuracy:
1.0000
Epoch 3447/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0235 - accuracy:
1.0000
Epoch 3448/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0235 - accuracy:
1.0000
Epoch 3449/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0235 - accuracy:
1.0000
Epoch 3450/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0235 - accuracy:
1.0000
Epoch 3451/5000
1/1 [=====] - 0s 0s/step - loss: 0.0235 - accuracy:
1.0000
Epoch 3452/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0235 - accuracy:
1.0000
Epoch 3453/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0235 - accuracy:
1.0000
Epoch 3454/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0235 - accuracy:
1.0000
Epoch 3455/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0234 - accuracy:
1.0000
Epoch 3456/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0234 - accuracy:
1.0000
Epoch 3457/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0234 - accuracy:
1.0000
Epoch 3458/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0234 - accuracy:
1.0000
Epoch 3459/5000
1/1 [=====] - 0s 0s/step - loss: 0.0234 - accuracy:
1.0000
Epoch 3460/5000
1/1 [=====] - 0s 0s/step - loss: 0.0234 - accuracy:
1.0000
Epoch 3461/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0234 - accuracy:
1.0000

Epoch 3462/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0234 - accuracy:
1.0000
Epoch 3463/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0234 - accuracy:
1.0000
Epoch 3464/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0234 - accuracy:
1.0000
Epoch 3465/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0234 - accuracy:
1.0000
Epoch 3466/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0234 - accuracy:
1.0000
Epoch 3467/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0233 - accuracy:
1.0000
Epoch 3468/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0233 - accuracy:
1.0000
Epoch 3469/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0233 - accuracy:
1.0000
Epoch 3470/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0233 - accuracy:
1.0000
Epoch 3471/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0233 - accuracy:
1.0000
Epoch 3472/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0233 - accuracy:
1.0000
Epoch 3473/5000
1/1 [=====] - 0s 0s/step - loss: 0.0233 - accuracy:
1.0000
Epoch 3474/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0233 - accuracy:
1.0000
Epoch 3475/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0233 - accuracy:
1.0000
Epoch 3476/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0233 - accuracy:
1.0000
Epoch 3477/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0233 - accuracy:
1.0000

Epoch 3478/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0233 - accuracy:
1.0000

Epoch 3479/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0232 - accuracy:
1.0000

Epoch 3480/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0232 - accuracy:
1.0000

Epoch 3481/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0232 - accuracy:
1.0000

Epoch 3482/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0232 - accuracy:
1.0000

Epoch 3483/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0232 - accuracy:
1.0000

Epoch 3484/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0232 - accuracy:
1.0000

Epoch 3485/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0232 - accuracy:
1.0000

Epoch 3486/5000
1/1 [=====] - 0s 0s/step - loss: 0.0232 - accuracy:
1.0000

Epoch 3487/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0232 - accuracy:
1.0000

Epoch 3488/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0232 - accuracy:
1.0000

Epoch 3489/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0232 - accuracy:
1.0000

Epoch 3490/5000
1/1 [=====] - 0s 5ms/step - loss: 0.0232 - accuracy:
1.0000

Epoch 3491/5000
1/1 [=====] - 0s 0s/step - loss: 0.0231 - accuracy:
1.0000

Epoch 3492/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0231 - accuracy:
1.0000

Epoch 3493/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0231 - accuracy:
1.0000

Epoch 3494/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0231 - accuracy:
1.0000

Epoch 3495/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0231 - accuracy:
1.0000

Epoch 3496/5000
1/1 [=====] - 0s 0s/step - loss: 0.0231 - accuracy:
1.0000

Epoch 3497/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0231 - accuracy:
1.0000

Epoch 3498/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0231 - accuracy:
1.0000

Epoch 3499/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0231 - accuracy:
1.0000

Epoch 3500/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0231 - accuracy:
1.0000

Epoch 3501/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0231 - accuracy:
1.0000

Epoch 3502/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0231 - accuracy:
1.0000

Epoch 3503/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0231 - accuracy:
1.0000

Epoch 3504/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0230 - accuracy:
1.0000

Epoch 3505/5000
1/1 [=====] - 0s 0s/step - loss: 0.0230 - accuracy:
1.0000

Epoch 3506/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0230 - accuracy:
1.0000

Epoch 3507/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0230 - accuracy:
1.0000

Epoch 3508/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0230 - accuracy:
1.0000

Epoch 3509/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0230 - accuracy:
1.0000

Epoch 3510/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0230 - accuracy: 1.0000

Epoch 3511/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0230 - accuracy: 1.0000

Epoch 3512/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0230 - accuracy: 1.0000

Epoch 3513/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0230 - accuracy: 1.0000

Epoch 3514/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0230 - accuracy: 1.0000

Epoch 3515/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0229 - accuracy: 1.0000

Epoch 3516/5000
1/1 [=====] - 0s 0s/step - loss: 0.0229 - accuracy: 1.0000

Epoch 3517/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0229 - accuracy: 1.0000

Epoch 3518/5000
1/1 [=====] - 0s 0s/step - loss: 0.0229 - accuracy: 1.0000

Epoch 3519/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0229 - accuracy: 1.0000

Epoch 3520/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0229 - accuracy: 1.0000

Epoch 3521/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0229 - accuracy: 1.0000

Epoch 3522/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0229 - accuracy: 1.0000

Epoch 3523/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0229 - accuracy: 1.0000

Epoch 3524/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0229 - accuracy: 1.0000

Epoch 3525/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0229 - accuracy: 1.0000

Epoch 3526/5000
1/1 [=====] - 0s 23ms/step - loss: 0.0229 - accuracy:
1.0000
Epoch 3527/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0229 - accuracy:
1.0000
Epoch 3528/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0228 - accuracy:
1.0000
Epoch 3529/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0228 - accuracy:
1.0000
Epoch 3530/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0228 - accuracy:
1.0000
Epoch 3531/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0228 - accuracy:
1.0000
Epoch 3532/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0228 - accuracy:
1.0000
Epoch 3533/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0228 - accuracy:
1.0000
Epoch 3534/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0228 - accuracy:
1.0000
Epoch 3535/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0228 - accuracy:
1.0000
Epoch 3536/5000
1/1 [=====] - 0s 0s/step - loss: 0.0228 - accuracy:
1.0000
Epoch 3537/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0228 - accuracy:
1.0000
Epoch 3538/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0228 - accuracy:
1.0000
Epoch 3539/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0228 - accuracy:
1.0000
Epoch 3540/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0227 - accuracy:
1.0000
Epoch 3541/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0227 - accuracy:
1.0000

Epoch 3542/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0227 - accuracy:
1.0000

Epoch 3543/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0227 - accuracy:
1.0000

Epoch 3544/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0227 - accuracy:
1.0000

Epoch 3545/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0227 - accuracy:
1.0000

Epoch 3546/5000
1/1 [=====] - 0s 0s/step - loss: 0.0227 - accuracy:
1.0000

Epoch 3547/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0227 - accuracy:
1.0000

Epoch 3548/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0227 - accuracy:
1.0000

Epoch 3549/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0227 - accuracy:
1.0000

Epoch 3550/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0227 - accuracy:
1.0000

Epoch 3551/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0227 - accuracy:
1.0000

Epoch 3552/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0226 - accuracy:
1.0000

Epoch 3553/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0226 - accuracy:
1.0000

Epoch 3554/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0226 - accuracy:
1.0000

Epoch 3555/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0226 - accuracy:
1.0000

Epoch 3556/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0226 - accuracy:
1.0000

Epoch 3557/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0226 - accuracy:
1.0000

Epoch 3558/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0226 - accuracy: 1.0000

Epoch 3559/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0226 - accuracy: 1.0000

Epoch 3560/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0226 - accuracy: 1.0000

Epoch 3561/5000
1/1 [=====] - 0s 0s/step - loss: 0.0226 - accuracy: 1.0000

Epoch 3562/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0226 - accuracy: 1.0000

Epoch 3563/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0226 - accuracy: 1.0000

Epoch 3564/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0225 - accuracy: 1.0000

Epoch 3565/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0225 - accuracy: 1.0000

Epoch 3566/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0225 - accuracy: 1.0000

Epoch 3567/5000
1/1 [=====] - 0s 0s/step - loss: 0.0225 - accuracy: 1.0000

Epoch 3568/5000
1/1 [=====] - 0s 0s/step - loss: 0.0225 - accuracy: 1.0000

Epoch 3569/5000
1/1 [=====] - 0s 0s/step - loss: 0.0225 - accuracy: 1.0000

Epoch 3570/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0225 - accuracy: 1.0000

Epoch 3571/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0225 - accuracy: 1.0000

Epoch 3572/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0225 - accuracy: 1.0000

Epoch 3573/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0225 - accuracy: 1.0000

Epoch 3574/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0225 - accuracy:
1.0000

Epoch 3575/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0225 - accuracy:
1.0000

Epoch 3576/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0225 - accuracy:
1.0000

Epoch 3577/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0224 - accuracy:
1.0000

Epoch 3578/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0224 - accuracy:
1.0000

Epoch 3579/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0224 - accuracy:
1.0000

Epoch 3580/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0224 - accuracy:
1.0000

Epoch 3581/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0224 - accuracy:
1.0000

Epoch 3582/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0224 - accuracy:
1.0000

Epoch 3583/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0224 - accuracy:
1.0000

Epoch 3584/5000
1/1 [=====] - 0s 0s/step - loss: 0.0224 - accuracy:
1.0000

Epoch 3585/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0224 - accuracy:
1.0000

Epoch 3586/5000
1/1 [=====] - 0s 0s/step - loss: 0.0224 - accuracy:
1.0000

Epoch 3587/5000
1/1 [=====] - 0s 0s/step - loss: 0.0224 - accuracy:
1.0000

Epoch 3588/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0224 - accuracy:
1.0000

Epoch 3589/5000
1/1 [=====] - 0s 3ms/step - loss: 0.0224 - accuracy:
1.0000

Epoch 3590/5000
1/1 [=====] - 0s 23ms/step - loss: 0.0223 - accuracy:
1.0000

Epoch 3591/5000
1/1 [=====] - 0s 5ms/step - loss: 0.0223 - accuracy:
1.0000

Epoch 3592/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0223 - accuracy:
1.0000

Epoch 3593/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0223 - accuracy:
1.0000

Epoch 3594/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0223 - accuracy:
1.0000

Epoch 3595/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0223 - accuracy:
1.0000

Epoch 3596/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0223 - accuracy:
1.0000

Epoch 3597/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0223 - accuracy:
1.0000

Epoch 3598/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0223 - accuracy:
1.0000

Epoch 3599/5000
1/1 [=====] - 0s 24ms/step - loss: 0.0223 - accuracy:
1.0000

Epoch 3600/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0223 - accuracy:
1.0000

Epoch 3601/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0223 - accuracy:
1.0000

Epoch 3602/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0223 - accuracy:
1.0000

Epoch 3603/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0222 - accuracy:
1.0000

Epoch 3604/5000
1/1 [=====] - 0s 0s/step - loss: 0.0222 - accuracy:
1.0000

Epoch 3605/5000
1/1 [=====] - 0s 0s/step - loss: 0.0222 - accuracy:
1.0000

Epoch 3606/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0222 - accuracy:
1.0000

Epoch 3607/5000
1/1 [=====] - 0s 0s/step - loss: 0.0222 - accuracy:
1.0000

Epoch 3608/5000
1/1 [=====] - 0s 0s/step - loss: 0.0222 - accuracy:
1.0000

Epoch 3609/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0222 - accuracy:
1.0000

Epoch 3610/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0222 - accuracy:
1.0000

Epoch 3611/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0222 - accuracy:
1.0000

Epoch 3612/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0222 - accuracy:
1.0000

Epoch 3613/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0222 - accuracy:
1.0000

Epoch 3614/5000
1/1 [=====] - 0s 26ms/step - loss: 0.0222 - accuracy:
1.0000

Epoch 3615/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0221 - accuracy:
1.0000

Epoch 3616/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0221 - accuracy:
1.0000

Epoch 3617/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0221 - accuracy:
1.0000

Epoch 3618/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0221 - accuracy:
1.0000

Epoch 3619/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0221 - accuracy:
1.0000

Epoch 3620/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0221 - accuracy:
1.0000

Epoch 3621/5000
1/1 [=====] - 0s 0s/step - loss: 0.0221 - accuracy:
1.0000

Epoch 3622/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0221 - accuracy:
1.0000
Epoch 3623/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0221 - accuracy:
1.0000
Epoch 3624/5000
1/1 [=====] - 0s 0s/step - loss: 0.0221 - accuracy:
1.0000
Epoch 3625/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0221 - accuracy:
1.0000
Epoch 3626/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0221 - accuracy:
1.0000
Epoch 3627/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0221 - accuracy:
1.0000
Epoch 3628/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0220 - accuracy:
1.0000
Epoch 3629/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0220 - accuracy:
1.0000
Epoch 3630/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0220 - accuracy:
1.0000
Epoch 3631/5000
1/1 [=====] - 0s 0s/step - loss: 0.0220 - accuracy:
1.0000
Epoch 3632/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0220 - accuracy:
1.0000
Epoch 3633/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0220 - accuracy:
1.0000
Epoch 3634/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0220 - accuracy:
1.0000
Epoch 3635/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0220 - accuracy:
1.0000
Epoch 3636/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0220 - accuracy:
1.0000
Epoch 3637/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0220 - accuracy:
1.0000

Epoch 3638/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0220 - accuracy:
1.0000

Epoch 3639/5000
1/1 [=====] - 0s 0s/step - loss: 0.0220 - accuracy:
1.0000

Epoch 3640/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0220 - accuracy:
1.0000

Epoch 3641/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0219 - accuracy:
1.0000

Epoch 3642/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0219 - accuracy:
1.0000

Epoch 3643/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0219 - accuracy:
1.0000

Epoch 3644/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0219 - accuracy:
1.0000

Epoch 3645/5000
1/1 [=====] - 0s 0s/step - loss: 0.0219 - accuracy:
1.0000

Epoch 3646/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0219 - accuracy:
1.0000

Epoch 3647/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0219 - accuracy:
1.0000

Epoch 3648/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0219 - accuracy:
1.0000

Epoch 3649/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0219 - accuracy:
1.0000

Epoch 3650/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0219 - accuracy:
1.0000

Epoch 3651/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0219 - accuracy:
1.0000

Epoch 3652/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0219 - accuracy:
1.0000

Epoch 3653/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0218 - accuracy:
1.0000

Epoch 3654/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0218 - accuracy:
1.0000
Epoch 3655/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0218 - accuracy:
1.0000
Epoch 3656/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0218 - accuracy:
1.0000
Epoch 3657/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0218 - accuracy:
1.0000
Epoch 3658/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0218 - accuracy:
1.0000
Epoch 3659/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0218 - accuracy:
1.0000
Epoch 3660/5000
1/1 [=====] - 0s 0s/step - loss: 0.0218 - accuracy:
1.0000
Epoch 3661/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0218 - accuracy:
1.0000
Epoch 3662/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0218 - accuracy:
1.0000
Epoch 3663/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0218 - accuracy:
1.0000
Epoch 3664/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0218 - accuracy:
1.0000
Epoch 3665/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0218 - accuracy:
1.0000
Epoch 3666/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0217 - accuracy:
1.0000
Epoch 3667/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0217 - accuracy:
1.0000
Epoch 3668/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0217 - accuracy:
1.0000
Epoch 3669/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0217 - accuracy:
1.0000

Epoch 3670/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0217 - accuracy:
1.0000
Epoch 3671/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0217 - accuracy:
1.0000
Epoch 3672/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0217 - accuracy:
1.0000
Epoch 3673/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0217 - accuracy:
1.0000
Epoch 3674/5000
1/1 [=====] - 0s 0s/step - loss: 0.0217 - accuracy:
1.0000
Epoch 3675/5000
1/1 [=====] - 0s 0s/step - loss: 0.0217 - accuracy:
1.0000
Epoch 3676/5000
1/1 [=====] - 0s 0s/step - loss: 0.0217 - accuracy:
1.0000
Epoch 3677/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0217 - accuracy:
1.0000
Epoch 3678/5000
1/1 [=====] - 0s 0s/step - loss: 0.0217 - accuracy:
1.0000
Epoch 3679/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0217 - accuracy:
1.0000
Epoch 3680/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0216 - accuracy:
1.0000
Epoch 3681/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0216 - accuracy:
1.0000
Epoch 3682/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0216 - accuracy:
1.0000
Epoch 3683/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0216 - accuracy:
1.0000
Epoch 3684/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0216 - accuracy:
1.0000
Epoch 3685/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0216 - accuracy:
1.0000

Epoch 3686/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0216 - accuracy:
1.0000

Epoch 3687/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0216 - accuracy:
1.0000

Epoch 3688/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0216 - accuracy:
1.0000

Epoch 3689/5000
1/1 [=====] - 0s 0s/step - loss: 0.0216 - accuracy:
1.0000

Epoch 3690/5000
1/1 [=====] - 0s 0s/step - loss: 0.0216 - accuracy:
1.0000

Epoch 3691/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0216 - accuracy:
1.0000

Epoch 3692/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0215 - accuracy:
1.0000

Epoch 3693/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0215 - accuracy:
1.0000

Epoch 3694/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0215 - accuracy:
1.0000

Epoch 3695/5000
1/1 [=====] - 0s 0s/step - loss: 0.0215 - accuracy:
1.0000

Epoch 3696/5000
1/1 [=====] - 0s 0s/step - loss: 0.0215 - accuracy:
1.0000

Epoch 3697/5000
1/1 [=====] - 0s 0s/step - loss: 0.0215 - accuracy:
1.0000

Epoch 3698/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0215 - accuracy:
1.0000

Epoch 3699/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0215 - accuracy:
1.0000

Epoch 3700/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0215 - accuracy:
1.0000

Epoch 3701/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0215 - accuracy:
1.0000

Epoch 3702/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0215 - accuracy:
1.0000

Epoch 3703/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0215 - accuracy:
1.0000

Epoch 3704/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0215 - accuracy:
1.0000

Epoch 3705/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0214 - accuracy:
1.0000

Epoch 3706/5000
1/1 [=====] - 0s 0s/step - loss: 0.0214 - accuracy:
1.0000

Epoch 3707/5000
1/1 [=====] - 0s 0s/step - loss: 0.0214 - accuracy:
1.0000

Epoch 3708/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0214 - accuracy:
1.0000

Epoch 3709/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0214 - accuracy:
1.0000

Epoch 3710/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0214 - accuracy:
1.0000

Epoch 3711/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0214 - accuracy:
1.0000

Epoch 3712/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0214 - accuracy:
1.0000

Epoch 3713/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0214 - accuracy:
1.0000

Epoch 3714/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0214 - accuracy:
1.0000

Epoch 3715/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0214 - accuracy:
1.0000

Epoch 3716/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0214 - accuracy:
1.0000

Epoch 3717/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0214 - accuracy:
1.0000

Epoch 3718/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0214 - accuracy:
1.0000

Epoch 3719/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0213 - accuracy:
1.0000

Epoch 3720/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0213 - accuracy:
1.0000

Epoch 3721/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0213 - accuracy:
1.0000

Epoch 3722/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0213 - accuracy:
1.0000

Epoch 3723/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0213 - accuracy:
1.0000

Epoch 3724/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0213 - accuracy:
1.0000

Epoch 3725/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0213 - accuracy:
1.0000

Epoch 3726/5000
1/1 [=====] - 0s 0s/step - loss: 0.0213 - accuracy:
1.0000

Epoch 3727/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0213 - accuracy:
1.0000

Epoch 3728/5000
1/1 [=====] - 0s 0s/step - loss: 0.0213 - accuracy:
1.0000

Epoch 3729/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0213 - accuracy:
1.0000

Epoch 3730/5000
1/1 [=====] - 0s 0s/step - loss: 0.0213 - accuracy:
1.0000

Epoch 3731/5000
1/1 [=====] - 0s 0s/step - loss: 0.0212 - accuracy:
1.0000

Epoch 3732/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0212 - accuracy:
1.0000

Epoch 3733/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0212 - accuracy:
1.0000

Epoch 3734/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0212 - accuracy:
1.0000

Epoch 3735/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0212 - accuracy:
1.0000

Epoch 3736/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0212 - accuracy:
1.0000

Epoch 3737/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0212 - accuracy:
1.0000

Epoch 3738/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0212 - accuracy:
1.0000

Epoch 3739/5000
1/1 [=====] - 0s 0s/step - loss: 0.0212 - accuracy:
1.0000

Epoch 3740/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0212 - accuracy:
1.0000

Epoch 3741/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0212 - accuracy:
1.0000

Epoch 3742/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0212 - accuracy:
1.0000

Epoch 3743/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0212 - accuracy:
1.0000

Epoch 3744/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0212 - accuracy:
1.0000

Epoch 3745/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0211 - accuracy:
1.0000

Epoch 3746/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0211 - accuracy:
1.0000

Epoch 3747/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0211 - accuracy:
1.0000

Epoch 3748/5000
1/1 [=====] - 0s 0s/step - loss: 0.0211 - accuracy:
1.0000

Epoch 3749/5000
1/1 [=====] - 0s 0s/step - loss: 0.0211 - accuracy:
1.0000

Epoch 3750/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0211 - accuracy:
1.0000

Epoch 3751/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0211 - accuracy:
1.0000

Epoch 3752/5000
1/1 [=====] - 0s 0s/step - loss: 0.0211 - accuracy:
1.0000

Epoch 3753/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0211 - accuracy:
1.0000

Epoch 3754/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0211 - accuracy:
1.0000

Epoch 3755/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0211 - accuracy:
1.0000

Epoch 3756/5000
1/1 [=====] - 0s 0s/step - loss: 0.0211 - accuracy:
1.0000

Epoch 3757/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0211 - accuracy:
1.0000

Epoch 3758/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0211 - accuracy:
1.0000

Epoch 3759/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0210 - accuracy:
1.0000

Epoch 3760/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0210 - accuracy:
1.0000

Epoch 3761/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0210 - accuracy:
1.0000

Epoch 3762/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0210 - accuracy:
1.0000

Epoch 3763/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0210 - accuracy:
1.0000

Epoch 3764/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0210 - accuracy:
1.0000

Epoch 3765/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0210 - accuracy:
1.0000

Epoch 3766/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0210 - accuracy: 1.0000

Epoch 3767/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0210 - accuracy: 1.0000

Epoch 3768/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0210 - accuracy: 1.0000

Epoch 3769/5000
1/1 [=====] - 0s 5ms/step - loss: 0.0210 - accuracy: 1.0000

Epoch 3770/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0210 - accuracy: 1.0000

Epoch 3771/5000
1/1 [=====] - 0s 0s/step - loss: 0.0209 - accuracy: 1.0000

Epoch 3772/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0209 - accuracy: 1.0000

Epoch 3773/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0209 - accuracy: 1.0000

Epoch 3774/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0209 - accuracy: 1.0000

Epoch 3775/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0209 - accuracy: 1.0000

Epoch 3776/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0209 - accuracy: 1.0000

Epoch 3777/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0209 - accuracy: 1.0000

Epoch 3778/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0209 - accuracy: 1.0000

Epoch 3779/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0209 - accuracy: 1.0000

Epoch 3780/5000
1/1 [=====] - 0s 23ms/step - loss: 0.0209 - accuracy: 1.0000

Epoch 3781/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0209 - accuracy: 1.0000

Epoch 3782/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0209 - accuracy:
1.0000

Epoch 3783/5000
1/1 [=====] - 0s 28ms/step - loss: 0.0209 - accuracy:
1.0000

Epoch 3784/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0209 - accuracy:
1.0000

Epoch 3785/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0209 - accuracy:
1.0000

Epoch 3786/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0208 - accuracy:
1.0000

Epoch 3787/5000
1/1 [=====] - 0s 23ms/step - loss: 0.0208 - accuracy:
1.0000

Epoch 3788/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0208 - accuracy:
1.0000

Epoch 3789/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0208 - accuracy:
1.0000

Epoch 3790/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0208 - accuracy:
1.0000

Epoch 3791/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0208 - accuracy:
1.0000

Epoch 3792/5000
1/1 [=====] - 0s 25ms/step - loss: 0.0208 - accuracy:
1.0000

Epoch 3793/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0208 - accuracy:
1.0000

Epoch 3794/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0208 - accuracy:
1.0000

Epoch 3795/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0208 - accuracy:
1.0000

Epoch 3796/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0208 - accuracy:
1.0000

Epoch 3797/5000
1/1 [=====] - 0s 5ms/step - loss: 0.0208 - accuracy:
1.0000

Epoch 3798/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0208 - accuracy: 1.0000

Epoch 3799/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0207 - accuracy: 1.0000

Epoch 3800/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0207 - accuracy: 1.0000

Epoch 3801/5000
1/1 [=====] - 0s 0s/step - loss: 0.0207 - accuracy: 1.0000

Epoch 3802/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0207 - accuracy: 1.0000

Epoch 3803/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0207 - accuracy: 1.0000

Epoch 3804/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0207 - accuracy: 1.0000

Epoch 3805/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0207 - accuracy: 1.0000

Epoch 3806/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0207 - accuracy: 1.0000

Epoch 3807/5000
1/1 [=====] - 0s 0s/step - loss: 0.0207 - accuracy: 1.0000

Epoch 3808/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0207 - accuracy: 1.0000

Epoch 3809/5000
1/1 [=====] - 0s 0s/step - loss: 0.0207 - accuracy: 1.0000

Epoch 3810/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0207 - accuracy: 1.0000

Epoch 3811/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0207 - accuracy: 1.0000

Epoch 3812/5000
1/1 [=====] - 0s 0s/step - loss: 0.0206 - accuracy: 1.0000

Epoch 3813/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0206 - accuracy: 1.0000

Epoch 3814/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0206 - accuracy:
1.0000
Epoch 3815/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0206 - accuracy:
1.0000
Epoch 3816/5000
1/1 [=====] - 0s 5ms/step - loss: 0.0206 - accuracy:
1.0000
Epoch 3817/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0206 - accuracy:
1.0000
Epoch 3818/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0206 - accuracy:
1.0000
Epoch 3819/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0206 - accuracy:
1.0000
Epoch 3820/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0206 - accuracy:
1.0000
Epoch 3821/5000
1/1 [=====] - 0s 0s/step - loss: 0.0206 - accuracy:
1.0000
Epoch 3822/5000
1/1 [=====] - 0s 0s/step - loss: 0.0206 - accuracy:
1.0000
Epoch 3823/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0206 - accuracy:
1.0000
Epoch 3824/5000
1/1 [=====] - 0s 0s/step - loss: 0.0206 - accuracy:
1.0000
Epoch 3825/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0206 - accuracy:
1.0000
Epoch 3826/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0206 - accuracy:
1.0000
Epoch 3827/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0205 - accuracy:
1.0000
Epoch 3828/5000
1/1 [=====] - 0s 0s/step - loss: 0.0205 - accuracy:
1.0000
Epoch 3829/5000
1/1 [=====] - 0s 26ms/step - loss: 0.0205 - accuracy:
1.0000

Epoch 3830/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0205 - accuracy: 1.0000

Epoch 3831/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0205 - accuracy: 1.0000

Epoch 3832/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0205 - accuracy: 1.0000

Epoch 3833/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0205 - accuracy: 1.0000

Epoch 3834/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0205 - accuracy: 1.0000

Epoch 3835/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0205 - accuracy: 1.0000

Epoch 3836/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0205 - accuracy: 1.0000

Epoch 3837/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0205 - accuracy: 1.0000

Epoch 3838/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0205 - accuracy: 1.0000

Epoch 3839/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0205 - accuracy: 1.0000

Epoch 3840/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0204 - accuracy: 1.0000

Epoch 3841/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0204 - accuracy: 1.0000

Epoch 3842/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0204 - accuracy: 1.0000

Epoch 3843/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0204 - accuracy: 1.0000

Epoch 3844/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0204 - accuracy: 1.0000

Epoch 3845/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0204 - accuracy: 1.0000

Epoch 3846/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0204 - accuracy:
1.0000

Epoch 3847/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0204 - accuracy:
1.0000

Epoch 3848/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0204 - accuracy:
1.0000

Epoch 3849/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0204 - accuracy:
1.0000

Epoch 3850/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0204 - accuracy:
1.0000

Epoch 3851/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0204 - accuracy:
1.0000

Epoch 3852/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0204 - accuracy:
1.0000

Epoch 3853/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0204 - accuracy:
1.0000

Epoch 3854/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0203 - accuracy:
1.0000

Epoch 3855/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0203 - accuracy:
1.0000

Epoch 3856/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0203 - accuracy:
1.0000

Epoch 3857/5000
1/1 [=====] - 0s 23ms/step - loss: 0.0203 - accuracy:
1.0000

Epoch 3858/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0203 - accuracy:
1.0000

Epoch 3859/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0203 - accuracy:
1.0000

Epoch 3860/5000
1/1 [=====] - 0s 0s/step - loss: 0.0203 - accuracy:
1.0000

Epoch 3861/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0203 - accuracy:
1.0000

Epoch 3862/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0203 - accuracy:
1.0000

Epoch 3863/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0203 - accuracy:
1.0000

Epoch 3864/5000
1/1 [=====] - 0s 0s/step - loss: 0.0203 - accuracy:
1.0000

Epoch 3865/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0203 - accuracy:
1.0000

Epoch 3866/5000
1/1 [=====] - 0s 24ms/step - loss: 0.0203 - accuracy:
1.0000

Epoch 3867/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0203 - accuracy:
1.0000

Epoch 3868/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0202 - accuracy:
1.0000

Epoch 3869/5000
1/1 [=====] - 0s 23ms/step - loss: 0.0202 - accuracy:
1.0000

Epoch 3870/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0202 - accuracy:
1.0000

Epoch 3871/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0202 - accuracy:
1.0000

Epoch 3872/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0202 - accuracy:
1.0000

Epoch 3873/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0202 - accuracy:
1.0000

Epoch 3874/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0202 - accuracy:
1.0000

Epoch 3875/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0202 - accuracy:
1.0000

Epoch 3876/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0202 - accuracy:
1.0000

Epoch 3877/5000
1/1 [=====] - 0s 0s/step - loss: 0.0202 - accuracy:
1.0000

Epoch 3878/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0202 - accuracy: 1.0000

Epoch 3879/5000
1/1 [=====] - 0s 0s/step - loss: 0.0202 - accuracy: 1.0000

Epoch 3880/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0202 - accuracy: 1.0000

Epoch 3881/5000
1/1 [=====] - 0s 0s/step - loss: 0.0201 - accuracy: 1.0000

Epoch 3882/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0201 - accuracy: 1.0000

Epoch 3883/5000
1/1 [=====] - 0s 24ms/step - loss: 0.0201 - accuracy: 1.0000

Epoch 3884/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0201 - accuracy: 1.0000

Epoch 3885/5000
1/1 [=====] - 0s 25ms/step - loss: 0.0201 - accuracy: 1.0000

Epoch 3886/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0201 - accuracy: 1.0000

Epoch 3887/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0201 - accuracy: 1.0000

Epoch 3888/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0201 - accuracy: 1.0000

Epoch 3889/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0201 - accuracy: 1.0000

Epoch 3890/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0201 - accuracy: 1.0000

Epoch 3891/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0201 - accuracy: 1.0000

Epoch 3892/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0201 - accuracy: 1.0000

Epoch 3893/5000
1/1 [=====] - 0s 0s/step - loss: 0.0201 - accuracy: 1.0000

Epoch 3894/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0201 - accuracy:
1.0000

Epoch 3895/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0201 - accuracy:
1.0000

Epoch 3896/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0200 - accuracy:
1.0000

Epoch 3897/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0200 - accuracy:
1.0000

Epoch 3898/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0200 - accuracy:
1.0000

Epoch 3899/5000
1/1 [=====] - 0s 0s/step - loss: 0.0200 - accuracy:
1.0000

Epoch 3900/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0200 - accuracy:
1.0000

Epoch 3901/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0200 - accuracy:
1.0000

Epoch 3902/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0200 - accuracy:
1.0000

Epoch 3903/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0200 - accuracy:
1.0000

Epoch 3904/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0200 - accuracy:
1.0000

Epoch 3905/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0200 - accuracy:
1.0000

Epoch 3906/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0200 - accuracy:
1.0000

Epoch 3907/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0200 - accuracy:
1.0000

Epoch 3908/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0200 - accuracy:
1.0000

Epoch 3909/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0200 - accuracy:
1.0000

Epoch 3910/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0199 - accuracy:
1.0000

Epoch 3911/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0199 - accuracy:
1.0000

Epoch 3912/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0199 - accuracy:
1.0000

Epoch 3913/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0199 - accuracy:
1.0000

Epoch 3914/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0199 - accuracy:
1.0000

Epoch 3915/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0199 - accuracy:
1.0000

Epoch 3916/5000
1/1 [=====] - 0s 0s/step - loss: 0.0199 - accuracy:
1.0000

Epoch 3917/5000
1/1 [=====] - 0s 0s/step - loss: 0.0199 - accuracy:
1.0000

Epoch 3918/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0199 - accuracy:
1.0000

Epoch 3919/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0199 - accuracy:
1.0000

Epoch 3920/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0199 - accuracy:
1.0000

Epoch 3921/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0199 - accuracy:
1.0000

Epoch 3922/5000
1/1 [=====] - 0s 0s/step - loss: 0.0199 - accuracy:
1.0000

Epoch 3923/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0199 - accuracy:
1.0000

Epoch 3924/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0199 - accuracy:
1.0000

Epoch 3925/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0198 - accuracy:
1.0000

Epoch 3926/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0198 - accuracy:
1.0000
Epoch 3927/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0198 - accuracy:
1.0000
Epoch 3928/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0198 - accuracy:
1.0000
Epoch 3929/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0198 - accuracy:
1.0000
Epoch 3930/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0198 - accuracy:
1.0000
Epoch 3931/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0198 - accuracy:
1.0000
Epoch 3932/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0198 - accuracy:
1.0000
Epoch 3933/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0198 - accuracy:
1.0000
Epoch 3934/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0198 - accuracy:
1.0000
Epoch 3935/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0198 - accuracy:
1.0000
Epoch 3936/5000
1/1 [=====] - 0s 0s/step - loss: 0.0198 - accuracy:
1.0000
Epoch 3937/5000
1/1 [=====] - 0s 0s/step - loss: 0.0198 - accuracy:
1.0000
Epoch 3938/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0198 - accuracy:
1.0000
Epoch 3939/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0197 - accuracy:
1.0000
Epoch 3940/5000
1/1 [=====] - 0s 0s/step - loss: 0.0197 - accuracy:
1.0000
Epoch 3941/5000
1/1 [=====] - 0s 0s/step - loss: 0.0197 - accuracy:
1.0000

Epoch 3942/5000
1/1 [=====] - 0s 0s/step - loss: 0.0197 - accuracy:
1.0000

Epoch 3943/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0197 - accuracy:
1.0000

Epoch 3944/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0197 - accuracy:
1.0000

Epoch 3945/5000
1/1 [=====] - 0s 0s/step - loss: 0.0197 - accuracy:
1.0000

Epoch 3946/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0197 - accuracy:
1.0000

Epoch 3947/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0197 - accuracy:
1.0000

Epoch 3948/5000
1/1 [=====] - 0s 0s/step - loss: 0.0197 - accuracy:
1.0000

Epoch 3949/5000
1/1 [=====] - 0s 0s/step - loss: 0.0197 - accuracy:
1.0000

Epoch 3950/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0197 - accuracy:
1.0000

Epoch 3951/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0197 - accuracy:
1.0000

Epoch 3952/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0197 - accuracy:
1.0000

Epoch 3953/5000
1/1 [=====] - 0s 0s/step - loss: 0.0196 - accuracy:
1.0000

Epoch 3954/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0196 - accuracy:
1.0000

Epoch 3955/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0196 - accuracy:
1.0000

Epoch 3956/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0196 - accuracy:
1.0000

Epoch 3957/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0196 - accuracy:
1.0000

Epoch 3958/5000
1/1 [=====] - 0s 0s/step - loss: 0.0196 - accuracy:
1.0000

Epoch 3959/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0196 - accuracy:
1.0000

Epoch 3960/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0196 - accuracy:
1.0000

Epoch 3961/5000
1/1 [=====] - 0s 0s/step - loss: 0.0196 - accuracy:
1.0000

Epoch 3962/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0196 - accuracy:
1.0000

Epoch 3963/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0196 - accuracy:
1.0000

Epoch 3964/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0196 - accuracy:
1.0000

Epoch 3965/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0196 - accuracy:
1.0000

Epoch 3966/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0196 - accuracy:
1.0000

Epoch 3967/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0195 - accuracy:
1.0000

Epoch 3968/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0195 - accuracy:
1.0000

Epoch 3969/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0195 - accuracy:
1.0000

Epoch 3970/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0195 - accuracy:
1.0000

Epoch 3971/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0195 - accuracy:
1.0000

Epoch 3972/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0195 - accuracy:
1.0000

Epoch 3973/5000
1/1 [=====] - 0s 0s/step - loss: 0.0195 - accuracy:
1.0000

Epoch 3974/5000
1/1 [=====] - 0s 0s/step - loss: 0.0195 - accuracy:
1.0000
Epoch 3975/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0195 - accuracy:
1.0000
Epoch 3976/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0195 - accuracy:
1.0000
Epoch 3977/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0195 - accuracy:
1.0000
Epoch 3978/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0195 - accuracy:
1.0000
Epoch 3979/5000
1/1 [=====] - 0s 0s/step - loss: 0.0195 - accuracy:
1.0000
Epoch 3980/5000
1/1 [=====] - 0s 5ms/step - loss: 0.0195 - accuracy:
1.0000
Epoch 3981/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0195 - accuracy:
1.0000
Epoch 3982/5000
1/1 [=====] - 0s 0s/step - loss: 0.0194 - accuracy:
1.0000
Epoch 3983/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0194 - accuracy:
1.0000
Epoch 3984/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0194 - accuracy:
1.0000
Epoch 3985/5000
1/1 [=====] - 0s 0s/step - loss: 0.0194 - accuracy:
1.0000
Epoch 3986/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0194 - accuracy:
1.0000
Epoch 3987/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0194 - accuracy:
1.0000
Epoch 3988/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0194 - accuracy:
1.0000
Epoch 3989/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0194 - accuracy:
1.0000

Epoch 3990/5000
1/1 [=====] - 0s 0s/step - loss: 0.0194 - accuracy:
1.0000

Epoch 3991/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0194 - accuracy:
1.0000

Epoch 3992/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0194 - accuracy:
1.0000

Epoch 3993/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0194 - accuracy:
1.0000

Epoch 3994/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0194 - accuracy:
1.0000

Epoch 3995/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0194 - accuracy:
1.0000

Epoch 3996/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0194 - accuracy:
1.0000

Epoch 3997/5000
1/1 [=====] - 0s 0s/step - loss: 0.0193 - accuracy:
1.0000

Epoch 3998/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0193 - accuracy:
1.0000

Epoch 3999/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0193 - accuracy:
1.0000

Epoch 4000/5000
1/1 [=====] - 0s 0s/step - loss: 0.0193 - accuracy:
1.0000

Epoch 4001/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0193 - accuracy:
1.0000

Epoch 4002/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0193 - accuracy:
1.0000

Epoch 4003/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0193 - accuracy:
1.0000

Epoch 4004/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0193 - accuracy:
1.0000

Epoch 4005/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0193 - accuracy:
1.0000

Epoch 4006/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0193 - accuracy:
1.0000

Epoch 4007/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0193 - accuracy:
1.0000

Epoch 4008/5000
1/1 [=====] - 0s 0s/step - loss: 0.0193 - accuracy:
1.0000

Epoch 4009/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0193 - accuracy:
1.0000

Epoch 4010/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0193 - accuracy:
1.0000

Epoch 4011/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0192 - accuracy:
1.0000

Epoch 4012/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0192 - accuracy:
1.0000

Epoch 4013/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0192 - accuracy:
1.0000

Epoch 4014/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0192 - accuracy:
1.0000

Epoch 4015/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0192 - accuracy:
1.0000

Epoch 4016/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0192 - accuracy:
1.0000

Epoch 4017/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0192 - accuracy:
1.0000

Epoch 4018/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0192 - accuracy:
1.0000

Epoch 4019/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0192 - accuracy:
1.0000

Epoch 4020/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0192 - accuracy:
1.0000

Epoch 4021/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0192 - accuracy:
1.0000

Epoch 4022/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0192 - accuracy:
1.0000

Epoch 4023/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0192 - accuracy:
1.0000

Epoch 4024/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0192 - accuracy:
1.0000

Epoch 4025/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0192 - accuracy:
1.0000

Epoch 4026/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0191 - accuracy:
1.0000

Epoch 4027/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0191 - accuracy:
1.0000

Epoch 4028/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0191 - accuracy:
1.0000

Epoch 4029/5000
1/1 [=====] - 0s 5ms/step - loss: 0.0191 - accuracy:
1.0000

Epoch 4030/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0191 - accuracy:
1.0000

Epoch 4031/5000
1/1 [=====] - 0s 0s/step - loss: 0.0191 - accuracy:
1.0000

Epoch 4032/5000
1/1 [=====] - 0s 0s/step - loss: 0.0191 - accuracy:
1.0000

Epoch 4033/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0191 - accuracy:
1.0000

Epoch 4034/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0191 - accuracy:
1.0000

Epoch 4035/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0191 - accuracy:
1.0000

Epoch 4036/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0191 - accuracy:
1.0000

Epoch 4037/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0191 - accuracy:
1.0000

Epoch 4038/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0191 - accuracy:
1.0000

Epoch 4039/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0191 - accuracy:
1.0000

Epoch 4040/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0191 - accuracy:
1.0000

Epoch 4041/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0190 - accuracy:
1.0000

Epoch 4042/5000
1/1 [=====] - 0s 0s/step - loss: 0.0190 - accuracy:
1.0000

Epoch 4043/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0190 - accuracy:
1.0000

Epoch 4044/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0190 - accuracy:
1.0000

Epoch 4045/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0190 - accuracy:
1.0000

Epoch 4046/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0190 - accuracy:
1.0000

Epoch 4047/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0190 - accuracy:
1.0000

Epoch 4048/5000
1/1 [=====] - 0s 0s/step - loss: 0.0190 - accuracy:
1.0000

Epoch 4049/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0190 - accuracy:
1.0000

Epoch 4050/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0190 - accuracy:
1.0000

Epoch 4051/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0190 - accuracy:
1.0000

Epoch 4052/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0190 - accuracy:
1.0000

Epoch 4053/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0190 - accuracy:
1.0000

Epoch 4054/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0190 - accuracy:
1.0000
Epoch 4055/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0190 - accuracy:
1.0000
Epoch 4056/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0189 - accuracy:
1.0000
Epoch 4057/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0189 - accuracy:
1.0000
Epoch 4058/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0189 - accuracy:
1.0000
Epoch 4059/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0189 - accuracy:
1.0000
Epoch 4060/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0189 - accuracy:
1.0000
Epoch 4061/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0189 - accuracy:
1.0000
Epoch 4062/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0189 - accuracy:
1.0000
Epoch 4063/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0189 - accuracy:
1.0000
Epoch 4064/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0189 - accuracy:
1.0000
Epoch 4065/5000
1/1 [=====] - 0s 3ms/step - loss: 0.0189 - accuracy:
1.0000
Epoch 4066/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0189 - accuracy:
1.0000
Epoch 4067/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0189 - accuracy:
1.0000
Epoch 4068/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0189 - accuracy:
1.0000
Epoch 4069/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0189 - accuracy:
1.0000

Epoch 4070/5000
1/1 [=====] - 0s 3ms/step - loss: 0.0189 - accuracy:
1.0000

Epoch 4071/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0188 - accuracy:
1.0000

Epoch 4072/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0188 - accuracy:
1.0000

Epoch 4073/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0188 - accuracy:
1.0000

Epoch 4074/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0188 - accuracy:
1.0000

Epoch 4075/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0188 - accuracy:
1.0000

Epoch 4076/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0188 - accuracy:
1.0000

Epoch 4077/5000
1/1 [=====] - 0s 25ms/step - loss: 0.0188 - accuracy:
1.0000

Epoch 4078/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0188 - accuracy:
1.0000

Epoch 4079/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0188 - accuracy:
1.0000

Epoch 4080/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0188 - accuracy:
1.0000

Epoch 4081/5000
1/1 [=====] - 0s 23ms/step - loss: 0.0188 - accuracy:
1.0000

Epoch 4082/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0188 - accuracy:
1.0000

Epoch 4083/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0188 - accuracy:
1.0000

Epoch 4084/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0188 - accuracy:
1.0000

Epoch 4085/5000
1/1 [=====] - 0s 24ms/step - loss: 0.0188 - accuracy:
1.0000

Epoch 4086/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0187 - accuracy:
1.0000

Epoch 4087/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0187 - accuracy:
1.0000

Epoch 4088/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0187 - accuracy:
1.0000

Epoch 4089/5000
1/1 [=====] - 0s 0s/step - loss: 0.0187 - accuracy:
1.0000

Epoch 4090/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0187 - accuracy:
1.0000

Epoch 4091/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0187 - accuracy:
1.0000

Epoch 4092/5000
1/1 [=====] - 0s 24ms/step - loss: 0.0187 - accuracy:
1.0000

Epoch 4093/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0187 - accuracy:
1.0000

Epoch 4094/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0187 - accuracy:
1.0000

Epoch 4095/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0187 - accuracy:
1.0000

Epoch 4096/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0187 - accuracy:
1.0000

Epoch 4097/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0187 - accuracy:
1.0000

Epoch 4098/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0187 - accuracy:
1.0000

Epoch 4099/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0187 - accuracy:
1.0000

Epoch 4100/5000
1/1 [=====] - 0s 0s/step - loss: 0.0187 - accuracy:
1.0000

Epoch 4101/5000
1/1 [=====] - 0s 0s/step - loss: 0.0186 - accuracy:
1.0000

Epoch 4102/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0186 - accuracy:
1.0000
Epoch 4103/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0186 - accuracy:
1.0000
Epoch 4104/5000
1/1 [=====] - 0s 23ms/step - loss: 0.0186 - accuracy:
1.0000
Epoch 4105/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0186 - accuracy:
1.0000
Epoch 4106/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0186 - accuracy:
1.0000
Epoch 4107/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0186 - accuracy:
1.0000
Epoch 4108/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0186 - accuracy:
1.0000
Epoch 4109/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0186 - accuracy:
1.0000
Epoch 4110/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0186 - accuracy:
1.0000
Epoch 4111/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0186 - accuracy:
1.0000
Epoch 4112/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0186 - accuracy:
1.0000
Epoch 4113/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0186 - accuracy:
1.0000
Epoch 4114/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0186 - accuracy:
1.0000
Epoch 4115/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0186 - accuracy:
1.0000
Epoch 4116/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0186 - accuracy:
1.0000
Epoch 4117/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0185 - accuracy:
1.0000

Epoch 4118/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0185 - accuracy:
1.0000

Epoch 4119/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0185 - accuracy:
1.0000

Epoch 4120/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0185 - accuracy:
1.0000

Epoch 4121/5000
1/1 [=====] - 0s 24ms/step - loss: 0.0185 - accuracy:
1.0000

Epoch 4122/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0185 - accuracy:
1.0000

Epoch 4123/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0185 - accuracy:
1.0000

Epoch 4124/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0185 - accuracy:
1.0000

Epoch 4125/5000
1/1 [=====] - 0s 0s/step - loss: 0.0185 - accuracy:
1.0000

Epoch 4126/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0185 - accuracy:
1.0000

Epoch 4127/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0185 - accuracy:
1.0000

Epoch 4128/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0185 - accuracy:
1.0000

Epoch 4129/5000
1/1 [=====] - 0s 39ms/step - loss: 0.0185 - accuracy:
1.0000

Epoch 4130/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0185 - accuracy:
1.0000

Epoch 4131/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0185 - accuracy:
1.0000

Epoch 4132/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0184 - accuracy:
1.0000

Epoch 4133/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0184 - accuracy:
1.0000

Epoch 4134/5000
1/1 [=====] - 0s 5ms/step - loss: 0.0184 - accuracy:
1.0000

Epoch 4135/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0184 - accuracy:
1.0000

Epoch 4136/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0184 - accuracy:
1.0000

Epoch 4137/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0184 - accuracy:
1.0000

Epoch 4138/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0184 - accuracy:
1.0000

Epoch 4139/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0184 - accuracy:
1.0000

Epoch 4140/5000
1/1 [=====] - 0s 0s/step - loss: 0.0184 - accuracy:
1.0000

Epoch 4141/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0184 - accuracy:
1.0000

Epoch 4142/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0184 - accuracy:
1.0000

Epoch 4143/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0184 - accuracy:
1.0000

Epoch 4144/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0184 - accuracy:
1.0000

Epoch 4145/5000
1/1 [=====] - 0s 0s/step - loss: 0.0184 - accuracy:
1.0000

Epoch 4146/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0184 - accuracy:
1.0000

Epoch 4147/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0183 - accuracy:
1.0000

Epoch 4148/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0183 - accuracy:
1.0000

Epoch 4149/5000
1/1 [=====] - 0s 0s/step - loss: 0.0183 - accuracy:
1.0000

Epoch 4150/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0183 - accuracy:
1.0000

Epoch 4151/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0183 - accuracy:
1.0000

Epoch 4152/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0183 - accuracy:
1.0000

Epoch 4153/5000
1/1 [=====] - 0s 23ms/step - loss: 0.0183 - accuracy:
1.0000

Epoch 4154/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0183 - accuracy:
1.0000

Epoch 4155/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0183 - accuracy:
1.0000

Epoch 4156/5000
1/1 [=====] - 0s 5ms/step - loss: 0.0183 - accuracy:
1.0000

Epoch 4157/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0183 - accuracy:
1.0000

Epoch 4158/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0183 - accuracy:
1.0000

Epoch 4159/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0183 - accuracy:
1.0000

Epoch 4160/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0183 - accuracy:
1.0000

Epoch 4161/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0183 - accuracy:
1.0000

Epoch 4162/5000
1/1 [=====] - 0s 0s/step - loss: 0.0183 - accuracy:
1.0000

Epoch 4163/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0182 - accuracy:
1.0000

Epoch 4164/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0182 - accuracy:
1.0000

Epoch 4165/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0182 - accuracy:
1.0000

Epoch 4166/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0182 - accuracy:
1.0000

Epoch 4167/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0182 - accuracy:
1.0000

Epoch 4168/5000
1/1 [=====] - 0s 0s/step - loss: 0.0182 - accuracy:
1.0000

Epoch 4169/5000
1/1 [=====] - 0s 0s/step - loss: 0.0182 - accuracy:
1.0000

Epoch 4170/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0182 - accuracy:
1.0000

Epoch 4171/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0182 - accuracy:
1.0000

Epoch 4172/5000
1/1 [=====] - 0s 0s/step - loss: 0.0182 - accuracy:
1.0000

Epoch 4173/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0182 - accuracy:
1.0000

Epoch 4174/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0182 - accuracy:
1.0000

Epoch 4175/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0182 - accuracy:
1.0000

Epoch 4176/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0182 - accuracy:
1.0000

Epoch 4177/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0182 - accuracy:
1.0000

Epoch 4178/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0182 - accuracy:
1.0000

Epoch 4179/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0181 - accuracy:
1.0000

Epoch 4180/5000
1/1 [=====] - 0s 5ms/step - loss: 0.0181 - accuracy:
1.0000

Epoch 4181/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0181 - accuracy:
1.0000

Epoch 4182/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0181 - accuracy: 1.0000

Epoch 4183/5000
1/1 [=====] - 0s 0s/step - loss: 0.0181 - accuracy: 1.0000

Epoch 4184/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0181 - accuracy: 1.0000

Epoch 4185/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0181 - accuracy: 1.0000

Epoch 4186/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0181 - accuracy: 1.0000

Epoch 4187/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0181 - accuracy: 1.0000

Epoch 4188/5000
1/1 [=====] - 0s 0s/step - loss: 0.0181 - accuracy: 1.0000

Epoch 4189/5000
1/1 [=====] - 0s 0s/step - loss: 0.0181 - accuracy: 1.0000

Epoch 4190/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0181 - accuracy: 1.0000

Epoch 4191/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0181 - accuracy: 1.0000

Epoch 4192/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0181 - accuracy: 1.0000

Epoch 4193/5000
1/1 [=====] - 0s 0s/step - loss: 0.0181 - accuracy: 1.0000

Epoch 4194/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0180 - accuracy: 1.0000

Epoch 4195/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0180 - accuracy: 1.0000

Epoch 4196/5000
1/1 [=====] - 0s 0s/step - loss: 0.0180 - accuracy: 1.0000

Epoch 4197/5000
1/1 [=====] - 0s 0s/step - loss: 0.0180 - accuracy: 1.0000

Epoch 4198/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0180 - accuracy:
1.0000

Epoch 4199/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0180 - accuracy:
1.0000

Epoch 4200/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0180 - accuracy:
1.0000

Epoch 4201/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0180 - accuracy:
1.0000

Epoch 4202/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0180 - accuracy:
1.0000

Epoch 4203/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0180 - accuracy:
1.0000

Epoch 4204/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0180 - accuracy:
1.0000

Epoch 4205/5000
1/1 [=====] - 0s 0s/step - loss: 0.0180 - accuracy:
1.0000

Epoch 4206/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0180 - accuracy:
1.0000

Epoch 4207/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0180 - accuracy:
1.0000

Epoch 4208/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0180 - accuracy:
1.0000

Epoch 4209/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0180 - accuracy:
1.0000

Epoch 4210/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0179 - accuracy:
1.0000

Epoch 4211/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0179 - accuracy:
1.0000

Epoch 4212/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0179 - accuracy:
1.0000

Epoch 4213/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0179 - accuracy:
1.0000

Epoch 4214/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0179 - accuracy:
1.0000

Epoch 4215/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0179 - accuracy:
1.0000

Epoch 4216/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0179 - accuracy:
1.0000

Epoch 4217/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0179 - accuracy:
1.0000

Epoch 4218/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0179 - accuracy:
1.0000

Epoch 4219/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0179 - accuracy:
1.0000

Epoch 4220/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0179 - accuracy:
1.0000

Epoch 4221/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0179 - accuracy:
1.0000

Epoch 4222/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0179 - accuracy:
1.0000

Epoch 4223/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0179 - accuracy:
1.0000

Epoch 4224/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0179 - accuracy:
1.0000

Epoch 4225/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0179 - accuracy:
1.0000

Epoch 4226/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0178 - accuracy:
1.0000

Epoch 4227/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0178 - accuracy:
1.0000

Epoch 4228/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0178 - accuracy:
1.0000

Epoch 4229/5000
1/1 [=====] - 0s 0s/step - loss: 0.0178 - accuracy:
1.0000

Epoch 4230/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0178 - accuracy:
1.0000
Epoch 4231/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0178 - accuracy:
1.0000
Epoch 4232/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0178 - accuracy:
1.0000
Epoch 4233/5000
1/1 [=====] - 0s 0s/step - loss: 0.0178 - accuracy:
1.0000
Epoch 4234/5000
1/1 [=====] - 0s 0s/step - loss: 0.0178 - accuracy:
1.0000
Epoch 4235/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0178 - accuracy:
1.0000
Epoch 4236/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0178 - accuracy:
1.0000
Epoch 4237/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0178 - accuracy:
1.0000
Epoch 4238/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0178 - accuracy:
1.0000
Epoch 4239/5000
1/1 [=====] - 0s 0s/step - loss: 0.0178 - accuracy:
1.0000
Epoch 4240/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0178 - accuracy:
1.0000
Epoch 4241/5000
1/1 [=====] - 0s 0s/step - loss: 0.0178 - accuracy:
1.0000
Epoch 4242/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0177 - accuracy:
1.0000
Epoch 4243/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0177 - accuracy:
1.0000
Epoch 4244/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0177 - accuracy:
1.0000
Epoch 4245/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0177 - accuracy:
1.0000

Epoch 4246/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0177 - accuracy:
1.0000
Epoch 4247/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0177 - accuracy:
1.0000
Epoch 4248/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0177 - accuracy:
1.0000
Epoch 4249/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0177 - accuracy:
1.0000
Epoch 4250/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0177 - accuracy:
1.0000
Epoch 4251/5000
1/1 [=====] - 0s 0s/step - loss: 0.0177 - accuracy:
1.0000
Epoch 4252/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0177 - accuracy:
1.0000
Epoch 4253/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0177 - accuracy:
1.0000
Epoch 4254/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0177 - accuracy:
1.0000
Epoch 4255/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0177 - accuracy:
1.0000
Epoch 4256/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0177 - accuracy:
1.0000
Epoch 4257/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0177 - accuracy:
1.0000
Epoch 4258/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0176 - accuracy:
1.0000
Epoch 4259/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0176 - accuracy:
1.0000
Epoch 4260/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0176 - accuracy:
1.0000
Epoch 4261/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0176 - accuracy:
1.0000

Epoch 4262/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0176 - accuracy:
1.0000

Epoch 4263/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0176 - accuracy:
1.0000

Epoch 4264/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0176 - accuracy:
1.0000

Epoch 4265/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0176 - accuracy:
1.0000

Epoch 4266/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0176 - accuracy:
1.0000

Epoch 4267/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0176 - accuracy:
1.0000

Epoch 4268/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0176 - accuracy:
1.0000

Epoch 4269/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0176 - accuracy:
1.0000

Epoch 4270/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0176 - accuracy:
1.0000

Epoch 4271/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0176 - accuracy:
1.0000

Epoch 4272/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0176 - accuracy:
1.0000

Epoch 4273/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0176 - accuracy:
1.0000

Epoch 4274/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0176 - accuracy:
1.0000

Epoch 4275/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0175 - accuracy:
1.0000

Epoch 4276/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0175 - accuracy:
1.0000

Epoch 4277/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0175 - accuracy:
1.0000

Epoch 4278/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0175 - accuracy:
1.0000

Epoch 4279/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0175 - accuracy:
1.0000

Epoch 4280/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0175 - accuracy:
1.0000

Epoch 4281/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0175 - accuracy:
1.0000

Epoch 4282/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0175 - accuracy:
1.0000

Epoch 4283/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0175 - accuracy:
1.0000

Epoch 4284/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0175 - accuracy:
1.0000

Epoch 4285/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0175 - accuracy:
1.0000

Epoch 4286/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0175 - accuracy:
1.0000

Epoch 4287/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0175 - accuracy:
1.0000

Epoch 4288/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0175 - accuracy:
1.0000

Epoch 4289/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0175 - accuracy:
1.0000

Epoch 4290/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0174 - accuracy:
1.0000

Epoch 4291/5000
1/1 [=====] - 0s 0s/step - loss: 0.0174 - accuracy:
1.0000

Epoch 4292/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0174 - accuracy:
1.0000

Epoch 4293/5000
1/1 [=====] - 0s 0s/step - loss: 0.0174 - accuracy:
1.0000

Epoch 4294/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0174 - accuracy:
1.0000
Epoch 4295/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0174 - accuracy:
1.0000
Epoch 4296/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0174 - accuracy:
1.0000
Epoch 4297/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0174 - accuracy:
1.0000
Epoch 4298/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0174 - accuracy:
1.0000
Epoch 4299/5000
1/1 [=====] - 0s 0s/step - loss: 0.0174 - accuracy:
1.0000
Epoch 4300/5000
1/1 [=====] - 0s 0s/step - loss: 0.0174 - accuracy:
1.0000
Epoch 4301/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0174 - accuracy:
1.0000
Epoch 4302/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0174 - accuracy:
1.0000
Epoch 4303/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0174 - accuracy:
1.0000
Epoch 4304/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0174 - accuracy:
1.0000
Epoch 4305/5000
1/1 [=====] - 0s 0s/step - loss: 0.0174 - accuracy:
1.0000
Epoch 4306/5000
1/1 [=====] - 0s 0s/step - loss: 0.0174 - accuracy:
1.0000
Epoch 4307/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0174 - accuracy:
1.0000
Epoch 4308/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0173 - accuracy:
1.0000
Epoch 4309/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0173 - accuracy:
1.0000

Epoch 4310/5000
1/1 [=====] - 0s 0s/step - loss: 0.0173 - accuracy:
1.0000

Epoch 4311/5000
1/1 [=====] - 0s 0s/step - loss: 0.0173 - accuracy:
1.0000

Epoch 4312/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0173 - accuracy:
1.0000

Epoch 4313/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0173 - accuracy:
1.0000

Epoch 4314/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0173 - accuracy:
1.0000

Epoch 4315/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0173 - accuracy:
1.0000

Epoch 4316/5000
1/1 [=====] - 0s 26ms/step - loss: 0.0173 - accuracy:
1.0000

Epoch 4317/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0173 - accuracy:
1.0000

Epoch 4318/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0173 - accuracy:
1.0000

Epoch 4319/5000
1/1 [=====] - 0s 0s/step - loss: 0.0173 - accuracy:
1.0000

Epoch 4320/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0173 - accuracy:
1.0000

Epoch 4321/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0173 - accuracy:
1.0000

Epoch 4322/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0173 - accuracy:
1.0000

Epoch 4323/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0173 - accuracy:
1.0000

Epoch 4324/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0172 - accuracy:
1.0000

Epoch 4325/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0172 - accuracy:
1.0000

Epoch 4326/5000
1/1 [=====] - 0s 0s/step - loss: 0.0172 - accuracy:
1.0000

Epoch 4327/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0172 - accuracy:
1.0000

Epoch 4328/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0172 - accuracy:
1.0000

Epoch 4329/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0172 - accuracy:
1.0000

Epoch 4330/5000
1/1 [=====] - 0s 0s/step - loss: 0.0172 - accuracy:
1.0000

Epoch 4331/5000
1/1 [=====] - 0s 0s/step - loss: 0.0172 - accuracy:
1.0000

Epoch 4332/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0172 - accuracy:
1.0000

Epoch 4333/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0172 - accuracy:
1.0000

Epoch 4334/5000
1/1 [=====] - 0s 0s/step - loss: 0.0172 - accuracy:
1.0000

Epoch 4335/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0172 - accuracy:
1.0000

Epoch 4336/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0172 - accuracy:
1.0000

Epoch 4337/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0172 - accuracy:
1.0000

Epoch 4338/5000
1/1 [=====] - 0s 0s/step - loss: 0.0172 - accuracy:
1.0000

Epoch 4339/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0172 - accuracy:
1.0000

Epoch 4340/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0171 - accuracy:
1.0000

Epoch 4341/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0171 - accuracy:
1.0000

Epoch 4342/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0171 - accuracy:
1.0000
Epoch 4343/5000
1/1 [=====] - 0s 0s/step - loss: 0.0171 - accuracy:
1.0000
Epoch 4344/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0171 - accuracy:
1.0000
Epoch 4345/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0171 - accuracy:
1.0000
Epoch 4346/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0171 - accuracy:
1.0000
Epoch 4347/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0171 - accuracy:
1.0000
Epoch 4348/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0171 - accuracy:
1.0000
Epoch 4349/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0171 - accuracy:
1.0000
Epoch 4350/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0171 - accuracy:
1.0000
Epoch 4351/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0171 - accuracy:
1.0000
Epoch 4352/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0171 - accuracy:
1.0000
Epoch 4353/5000
1/1 [=====] - 0s 0s/step - loss: 0.0171 - accuracy:
1.0000
Epoch 4354/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0171 - accuracy:
1.0000
Epoch 4355/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0171 - accuracy:
1.0000
Epoch 4356/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0171 - accuracy:
1.0000
Epoch 4357/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0170 - accuracy:
1.0000

Epoch 4358/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0170 - accuracy:
1.0000
Epoch 4359/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0170 - accuracy:
1.0000
Epoch 4360/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0170 - accuracy:
1.0000
Epoch 4361/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0170 - accuracy:
1.0000
Epoch 4362/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0170 - accuracy:
1.0000
Epoch 4363/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0170 - accuracy:
1.0000
Epoch 4364/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0170 - accuracy:
1.0000
Epoch 4365/5000
1/1 [=====] - 0s 24ms/step - loss: 0.0170 - accuracy:
1.0000
Epoch 4366/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0170 - accuracy:
1.0000
Epoch 4367/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0170 - accuracy:
1.0000
Epoch 4368/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0170 - accuracy:
1.0000
Epoch 4369/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0170 - accuracy:
1.0000
Epoch 4370/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0170 - accuracy:
1.0000
Epoch 4371/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0170 - accuracy:
1.0000
Epoch 4372/5000
1/1 [=====] - 0s 0s/step - loss: 0.0170 - accuracy:
1.0000
Epoch 4373/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0170 - accuracy:
1.0000

Epoch 4374/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0169 - accuracy:
1.0000
Epoch 4375/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0169 - accuracy:
1.0000
Epoch 4376/5000
1/1 [=====] - 0s 0s/step - loss: 0.0169 - accuracy:
1.0000
Epoch 4377/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0169 - accuracy:
1.0000
Epoch 4378/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0169 - accuracy:
1.0000
Epoch 4379/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0169 - accuracy:
1.0000
Epoch 4380/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0169 - accuracy:
1.0000
Epoch 4381/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0169 - accuracy:
1.0000
Epoch 4382/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0169 - accuracy:
1.0000
Epoch 4383/5000
1/1 [=====] - 0s 0s/step - loss: 0.0169 - accuracy:
1.0000
Epoch 4384/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0169 - accuracy:
1.0000
Epoch 4385/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0169 - accuracy:
1.0000
Epoch 4386/5000
1/1 [=====] - 0s 0s/step - loss: 0.0169 - accuracy:
1.0000
Epoch 4387/5000
1/1 [=====] - 0s 0s/step - loss: 0.0169 - accuracy:
1.0000
Epoch 4388/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0169 - accuracy:
1.0000
Epoch 4389/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0169 - accuracy:
1.0000

Epoch 4390/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0169 - accuracy:
1.0000

Epoch 4391/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0168 - accuracy:
1.0000

Epoch 4392/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0168 - accuracy:
1.0000

Epoch 4393/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0168 - accuracy:
1.0000

Epoch 4394/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0168 - accuracy:
1.0000

Epoch 4395/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0168 - accuracy:
1.0000

Epoch 4396/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0168 - accuracy:
1.0000

Epoch 4397/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0168 - accuracy:
1.0000

Epoch 4398/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0168 - accuracy:
1.0000

Epoch 4399/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0168 - accuracy:
1.0000

Epoch 4400/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0168 - accuracy:
1.0000

Epoch 4401/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0168 - accuracy:
1.0000

Epoch 4402/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0168 - accuracy:
1.0000

Epoch 4403/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0168 - accuracy:
1.0000

Epoch 4404/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0168 - accuracy:
1.0000

Epoch 4405/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0168 - accuracy:
1.0000

Epoch 4406/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0168 - accuracy:
1.0000

Epoch 4407/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0168 - accuracy:
1.0000

Epoch 4408/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0167 - accuracy:
1.0000

Epoch 4409/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0167 - accuracy:
1.0000

Epoch 4410/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0167 - accuracy:
1.0000

Epoch 4411/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0167 - accuracy:
1.0000

Epoch 4412/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0167 - accuracy:
1.0000

Epoch 4413/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0167 - accuracy:
1.0000

Epoch 4414/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0167 - accuracy:
1.0000

Epoch 4415/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0167 - accuracy:
1.0000

Epoch 4416/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0167 - accuracy:
1.0000

Epoch 4417/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0167 - accuracy:
1.0000

Epoch 4418/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0167 - accuracy:
1.0000

Epoch 4419/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0167 - accuracy:
1.0000

Epoch 4420/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0167 - accuracy:
1.0000

Epoch 4421/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0167 - accuracy:
1.0000

Epoch 4422/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0167 - accuracy:
1.0000
Epoch 4423/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0167 - accuracy:
1.0000
Epoch 4424/5000
1/1 [=====] - 0s 1ms/step - loss: 0.0167 - accuracy:
1.0000
Epoch 4425/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0166 - accuracy:
1.0000
Epoch 4426/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0166 - accuracy:
1.0000
Epoch 4427/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0166 - accuracy:
1.0000
Epoch 4428/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0166 - accuracy:
1.0000
Epoch 4429/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0166 - accuracy:
1.0000
Epoch 4430/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0166 - accuracy:
1.0000
Epoch 4431/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0166 - accuracy:
1.0000
Epoch 4432/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0166 - accuracy:
1.0000
Epoch 4433/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0166 - accuracy:
1.0000
Epoch 4434/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0166 - accuracy:
1.0000
Epoch 4435/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0166 - accuracy:
1.0000
Epoch 4436/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0166 - accuracy:
1.0000
Epoch 4437/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0166 - accuracy:
1.0000

Epoch 4438/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0166 - accuracy: 1.0000

Epoch 4439/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0166 - accuracy: 1.0000

Epoch 4440/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0166 - accuracy: 1.0000

Epoch 4441/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0166 - accuracy: 1.0000

Epoch 4442/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0165 - accuracy: 1.0000

Epoch 4443/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0165 - accuracy: 1.0000

Epoch 4444/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0165 - accuracy: 1.0000

Epoch 4445/5000
1/1 [=====] - 0s 0s/step - loss: 0.0165 - accuracy: 1.0000

Epoch 4446/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0165 - accuracy: 1.0000

Epoch 4447/5000
1/1 [=====] - 0s 0s/step - loss: 0.0165 - accuracy: 1.0000

Epoch 4448/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0165 - accuracy: 1.0000

Epoch 4449/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0165 - accuracy: 1.0000

Epoch 4450/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0165 - accuracy: 1.0000

Epoch 4451/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0165 - accuracy: 1.0000

Epoch 4452/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0165 - accuracy: 1.0000

Epoch 4453/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0165 - accuracy: 1.0000

Epoch 4454/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0165 - accuracy:
1.0000
Epoch 4455/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0165 - accuracy:
1.0000
Epoch 4456/5000
1/1 [=====] - 0s 0s/step - loss: 0.0165 - accuracy:
1.0000
Epoch 4457/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0165 - accuracy:
1.0000
Epoch 4458/5000
1/1 [=====] - 0s 0s/step - loss: 0.0165 - accuracy:
1.0000
Epoch 4459/5000
1/1 [=====] - 0s 0s/step - loss: 0.0165 - accuracy:
1.0000
Epoch 4460/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0164 - accuracy:
1.0000
Epoch 4461/5000
1/1 [=====] - 0s 0s/step - loss: 0.0164 - accuracy:
1.0000
Epoch 4462/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0164 - accuracy:
1.0000
Epoch 4463/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0164 - accuracy:
1.0000
Epoch 4464/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0164 - accuracy:
1.0000
Epoch 4465/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0164 - accuracy:
1.0000
Epoch 4466/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0164 - accuracy:
1.0000
Epoch 4467/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0164 - accuracy:
1.0000
Epoch 4468/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0164 - accuracy:
1.0000
Epoch 4469/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0164 - accuracy:
1.0000

Epoch 4470/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0164 - accuracy:
1.0000
Epoch 4471/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0164 - accuracy:
1.0000
Epoch 4472/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0164 - accuracy:
1.0000
Epoch 4473/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0164 - accuracy:
1.0000
Epoch 4474/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0164 - accuracy:
1.0000
Epoch 4475/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0164 - accuracy:
1.0000
Epoch 4476/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0164 - accuracy:
1.0000
Epoch 4477/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0164 - accuracy:
1.0000
Epoch 4478/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0163 - accuracy:
1.0000
Epoch 4479/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0163 - accuracy:
1.0000
Epoch 4480/5000
1/1 [=====] - 0s 0s/step - loss: 0.0163 - accuracy:
1.0000
Epoch 4481/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0163 - accuracy:
1.0000
Epoch 4482/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0163 - accuracy:
1.0000
Epoch 4483/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0163 - accuracy:
1.0000
Epoch 4484/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0163 - accuracy:
1.0000
Epoch 4485/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0163 - accuracy:
1.0000

Epoch 4486/5000
1/1 [=====] - 0s 23ms/step - loss: 0.0163 - accuracy:
1.0000

Epoch 4487/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0163 - accuracy:
1.0000

Epoch 4488/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0163 - accuracy:
1.0000

Epoch 4489/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0163 - accuracy:
1.0000

Epoch 4490/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0163 - accuracy:
1.0000

Epoch 4491/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0163 - accuracy:
1.0000

Epoch 4492/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0163 - accuracy:
1.0000

Epoch 4493/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0163 - accuracy:
1.0000

Epoch 4494/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0163 - accuracy:
1.0000

Epoch 4495/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0162 - accuracy:
1.0000

Epoch 4496/5000
1/1 [=====] - 0s 0s/step - loss: 0.0162 - accuracy:
1.0000

Epoch 4497/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0162 - accuracy:
1.0000

Epoch 4498/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0162 - accuracy:
1.0000

Epoch 4499/5000
1/1 [=====] - 0s 0s/step - loss: 0.0162 - accuracy:
1.0000

Epoch 4500/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0162 - accuracy:
1.0000

Epoch 4501/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0162 - accuracy:
1.0000

Epoch 4502/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0162 - accuracy:
1.0000

Epoch 4503/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0162 - accuracy:
1.0000

Epoch 4504/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0162 - accuracy:
1.0000

Epoch 4505/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0162 - accuracy:
1.0000

Epoch 4506/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0162 - accuracy:
1.0000

Epoch 4507/5000
1/1 [=====] - 0s 0s/step - loss: 0.0162 - accuracy:
1.0000

Epoch 4508/5000
1/1 [=====] - 0s 50ms/step - loss: 0.0162 - accuracy:
1.0000

Epoch 4509/5000
1/1 [=====] - 0s 0s/step - loss: 0.0162 - accuracy:
1.0000

Epoch 4510/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0162 - accuracy:
1.0000

Epoch 4511/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0162 - accuracy:
1.0000

Epoch 4512/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0162 - accuracy:
1.0000

Epoch 4513/5000
1/1 [=====] - 0s 0s/step - loss: 0.0161 - accuracy:
1.0000

Epoch 4514/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0161 - accuracy:
1.0000

Epoch 4515/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0161 - accuracy:
1.0000

Epoch 4516/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0161 - accuracy:
1.0000

Epoch 4517/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0161 - accuracy:
1.0000

Epoch 4518/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0161 - accuracy:
1.0000

Epoch 4519/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0161 - accuracy:
1.0000

Epoch 4520/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0161 - accuracy:
1.0000

Epoch 4521/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0161 - accuracy:
1.0000

Epoch 4522/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0161 - accuracy:
1.0000

Epoch 4523/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0161 - accuracy:
1.0000

Epoch 4524/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0161 - accuracy:
1.0000

Epoch 4525/5000
1/1 [=====] - 0s 5ms/step - loss: 0.0161 - accuracy:
1.0000

Epoch 4526/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0161 - accuracy:
1.0000

Epoch 4527/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0161 - accuracy:
1.0000

Epoch 4528/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0161 - accuracy:
1.0000

Epoch 4529/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0161 - accuracy:
1.0000

Epoch 4530/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0160 - accuracy:
1.0000

Epoch 4531/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0160 - accuracy:
1.0000

Epoch 4532/5000
1/1 [=====] - 0s 0s/step - loss: 0.0160 - accuracy:
1.0000

Epoch 4533/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0160 - accuracy:
1.0000

Epoch 4534/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0160 - accuracy:
1.0000

Epoch 4535/5000
1/1 [=====] - 0s 0s/step - loss: 0.0160 - accuracy:
1.0000

Epoch 4536/5000
1/1 [=====] - 0s 23ms/step - loss: 0.0160 - accuracy:
1.0000

Epoch 4537/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0160 - accuracy:
1.0000

Epoch 4538/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0160 - accuracy:
1.0000

Epoch 4539/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0160 - accuracy:
1.0000

Epoch 4540/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0160 - accuracy:
1.0000

Epoch 4541/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0160 - accuracy:
1.0000

Epoch 4542/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0160 - accuracy:
1.0000

Epoch 4543/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0160 - accuracy:
1.0000

Epoch 4544/5000
1/1 [=====] - 0s 3ms/step - loss: 0.0160 - accuracy:
1.0000

Epoch 4545/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0160 - accuracy:
1.0000

Epoch 4546/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0160 - accuracy:
1.0000

Epoch 4547/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0160 - accuracy:
1.0000

Epoch 4548/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0159 - accuracy:
1.0000

Epoch 4549/5000
1/1 [=====] - 0s 0s/step - loss: 0.0159 - accuracy:
1.0000

Epoch 4550/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0159 - accuracy:
1.0000
Epoch 4551/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0159 - accuracy:
1.0000
Epoch 4552/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0159 - accuracy:
1.0000
Epoch 4553/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0159 - accuracy:
1.0000
Epoch 4554/5000
1/1 [=====] - 0s 0s/step - loss: 0.0159 - accuracy:
1.0000
Epoch 4555/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0159 - accuracy:
1.0000
Epoch 4556/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0159 - accuracy:
1.0000
Epoch 4557/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0159 - accuracy:
1.0000
Epoch 4558/5000
1/1 [=====] - 0s 0s/step - loss: 0.0159 - accuracy:
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Epoch 4559/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0159 - accuracy:
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Epoch 4560/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0159 - accuracy:
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Epoch 4561/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0159 - accuracy:
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Epoch 4562/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0159 - accuracy:
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Epoch 4563/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0159 - accuracy:
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Epoch 4564/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0159 - accuracy:
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Epoch 4565/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0159 - accuracy:
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Epoch 4566/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0158 - accuracy:
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Epoch 4567/5000
1/1 [=====] - 0s 0s/step - loss: 0.0158 - accuracy:
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Epoch 4568/5000
1/1 [=====] - 0s 0s/step - loss: 0.0158 - accuracy:
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Epoch 4569/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0158 - accuracy:
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Epoch 4570/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0158 - accuracy:
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Epoch 4571/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0158 - accuracy:
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Epoch 4572/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0158 - accuracy:
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Epoch 4573/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0158 - accuracy:
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Epoch 4574/5000
1/1 [=====] - 0s 0s/step - loss: 0.0158 - accuracy:
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Epoch 4575/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0158 - accuracy:
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Epoch 4576/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0158 - accuracy:
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Epoch 4577/5000
1/1 [=====] - 0s 0s/step - loss: 0.0158 - accuracy:
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Epoch 4578/5000
1/1 [=====] - 0s 0s/step - loss: 0.0158 - accuracy:
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Epoch 4579/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0158 - accuracy:
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Epoch 4580/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0158 - accuracy:
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Epoch 4581/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0158 - accuracy:
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Epoch 4582/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0158 - accuracy:
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Epoch 4583/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0158 - accuracy:
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Epoch 4584/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0158 - accuracy:
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Epoch 4585/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0157 - accuracy:
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Epoch 4586/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0157 - accuracy:
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Epoch 4587/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0157 - accuracy:
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Epoch 4588/5000
1/1 [=====] - 0s 23ms/step - loss: 0.0157 - accuracy:
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Epoch 4589/5000
1/1 [=====] - 0s 0s/step - loss: 0.0157 - accuracy:
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Epoch 4590/5000
1/1 [=====] - 0s 0s/step - loss: 0.0157 - accuracy:
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Epoch 4591/5000
1/1 [=====] - 0s 0s/step - loss: 0.0157 - accuracy:
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Epoch 4592/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0157 - accuracy:
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Epoch 4593/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0157 - accuracy:
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Epoch 4594/5000
1/1 [=====] - 0s 0s/step - loss: 0.0157 - accuracy:
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Epoch 4595/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0157 - accuracy:
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Epoch 4596/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0157 - accuracy:
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Epoch 4597/5000
1/1 [=====] - 0s 0s/step - loss: 0.0157 - accuracy:
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Epoch 4598/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0157 - accuracy: 1.0000

Epoch 4599/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0157 - accuracy: 1.0000

Epoch 4600/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0157 - accuracy: 1.0000

Epoch 4601/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0157 - accuracy: 1.0000

Epoch 4602/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0157 - accuracy: 1.0000

Epoch 4603/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0156 - accuracy: 1.0000

Epoch 4604/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0156 - accuracy: 1.0000

Epoch 4605/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0156 - accuracy: 1.0000

Epoch 4606/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0156 - accuracy: 1.0000

Epoch 4607/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0156 - accuracy: 1.0000

Epoch 4608/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0156 - accuracy: 1.0000

Epoch 4609/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0156 - accuracy: 1.0000

Epoch 4610/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0156 - accuracy: 1.0000

Epoch 4611/5000
1/1 [=====] - 0s 0s/step - loss: 0.0156 - accuracy: 1.0000

Epoch 4612/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0156 - accuracy: 1.0000

Epoch 4613/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0156 - accuracy: 1.0000

Epoch 4614/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0156 - accuracy:
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Epoch 4615/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0156 - accuracy:
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Epoch 4616/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0156 - accuracy:
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Epoch 4617/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0156 - accuracy:
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Epoch 4618/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0156 - accuracy:
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Epoch 4619/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0156 - accuracy:
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Epoch 4620/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0156 - accuracy:
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Epoch 4621/5000
1/1 [=====] - 0s 3ms/step - loss: 0.0155 - accuracy:
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Epoch 4622/5000
1/1 [=====] - 0s 23ms/step - loss: 0.0155 - accuracy:
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Epoch 4623/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0155 - accuracy:
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Epoch 4624/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0155 - accuracy:
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Epoch 4625/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0155 - accuracy:
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Epoch 4626/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0155 - accuracy:
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Epoch 4627/5000
1/1 [=====] - 0s 0s/step - loss: 0.0155 - accuracy:
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Epoch 4628/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0155 - accuracy:
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Epoch 4629/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0155 - accuracy:
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Epoch 4630/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0155 - accuracy:
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Epoch 4631/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0155 - accuracy:
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Epoch 4632/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0155 - accuracy:
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Epoch 4633/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0155 - accuracy:
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Epoch 4634/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0155 - accuracy:
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Epoch 4635/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0155 - accuracy:
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Epoch 4636/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0155 - accuracy:
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Epoch 4637/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0155 - accuracy:
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Epoch 4638/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0155 - accuracy:
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Epoch 4639/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0155 - accuracy:
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Epoch 4640/5000
1/1 [=====] - 0s 0s/step - loss: 0.0154 - accuracy:
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Epoch 4641/5000
1/1 [=====] - 0s 24ms/step - loss: 0.0154 - accuracy:
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Epoch 4642/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0154 - accuracy:
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Epoch 4643/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0154 - accuracy:
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Epoch 4644/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0154 - accuracy:
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Epoch 4645/5000
1/1 [=====] - 0s 23ms/step - loss: 0.0154 - accuracy:
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Epoch 4646/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0154 - accuracy:
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Epoch 4647/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0154 - accuracy:
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Epoch 4648/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0154 - accuracy:
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Epoch 4649/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0154 - accuracy:
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Epoch 4650/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0154 - accuracy:
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Epoch 4651/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0154 - accuracy:
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Epoch 4652/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0154 - accuracy:
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Epoch 4653/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0154 - accuracy:
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Epoch 4654/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0154 - accuracy:
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Epoch 4655/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0154 - accuracy:
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Epoch 4656/5000
1/1 [=====] - 0s 0s/step - loss: 0.0154 - accuracy:
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Epoch 4657/5000
1/1 [=====] - 0s 0s/step - loss: 0.0154 - accuracy:
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Epoch 4658/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0153 - accuracy:
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Epoch 4659/5000
1/1 [=====] - 0s 3ms/step - loss: 0.0153 - accuracy:
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Epoch 4660/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0153 - accuracy:
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Epoch 4661/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0153 - accuracy:
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Epoch 4662/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0153 - accuracy:
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Epoch 4663/5000
1/1 [=====] - 0s 0s/step - loss: 0.0153 - accuracy:
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Epoch 4664/5000
1/1 [=====] - 0s 0s/step - loss: 0.0153 - accuracy:
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Epoch 4665/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0153 - accuracy:
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Epoch 4666/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0153 - accuracy:
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Epoch 4667/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0153 - accuracy:
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Epoch 4668/5000
1/1 [=====] - 0s 0s/step - loss: 0.0153 - accuracy:
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Epoch 4669/5000
1/1 [=====] - 0s 0s/step - loss: 0.0153 - accuracy:
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Epoch 4670/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0153 - accuracy:
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Epoch 4671/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0153 - accuracy:
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Epoch 4672/5000
1/1 [=====] - 0s 0s/step - loss: 0.0153 - accuracy:
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Epoch 4673/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0153 - accuracy:
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Epoch 4674/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0153 - accuracy:
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Epoch 4675/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0153 - accuracy:
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Epoch 4676/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0153 - accuracy:
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Epoch 4677/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0152 - accuracy:
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Epoch 4678/5000
1/1 [=====] - 0s 24ms/step - loss: 0.0152 - accuracy:
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Epoch 4679/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0152 - accuracy:
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Epoch 4680/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0152 - accuracy:
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Epoch 4681/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0152 - accuracy:
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Epoch 4682/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0152 - accuracy:
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Epoch 4683/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0152 - accuracy:
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Epoch 4684/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0152 - accuracy:
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Epoch 4685/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0152 - accuracy:
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Epoch 4686/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0152 - accuracy:
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Epoch 4687/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0152 - accuracy:
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Epoch 4688/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0152 - accuracy:
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Epoch 4689/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0152 - accuracy:
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Epoch 4690/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0152 - accuracy:
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Epoch 4691/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0152 - accuracy:
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Epoch 4692/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0152 - accuracy:
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Epoch 4693/5000
1/1 [=====] - 0s 0s/step - loss: 0.0152 - accuracy:
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Epoch 4694/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0152 - accuracy: 1.0000

Epoch 4695/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0152 - accuracy: 1.0000

Epoch 4696/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0152 - accuracy: 1.0000

Epoch 4697/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0151 - accuracy: 1.0000

Epoch 4698/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0151 - accuracy: 1.0000

Epoch 4699/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0151 - accuracy: 1.0000

Epoch 4700/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0151 - accuracy: 1.0000

Epoch 4701/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0151 - accuracy: 1.0000

Epoch 4702/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0151 - accuracy: 1.0000

Epoch 4703/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0151 - accuracy: 1.0000

Epoch 4704/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0151 - accuracy: 1.0000

Epoch 4705/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0151 - accuracy: 1.0000

Epoch 4706/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0151 - accuracy: 1.0000

Epoch 4707/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0151 - accuracy: 1.0000

Epoch 4708/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0151 - accuracy: 1.0000

Epoch 4709/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0151 - accuracy: 1.0000

Epoch 4710/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0151 - accuracy: 1.0000

Epoch 4711/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0151 - accuracy: 1.0000

Epoch 4712/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0151 - accuracy: 1.0000

Epoch 4713/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0151 - accuracy: 1.0000

Epoch 4714/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0151 - accuracy: 1.0000

Epoch 4715/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0151 - accuracy: 1.0000

Epoch 4716/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0150 - accuracy: 1.0000

Epoch 4717/5000
1/1 [=====] - 0s 0s/step - loss: 0.0150 - accuracy: 1.0000

Epoch 4718/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0150 - accuracy: 1.0000

Epoch 4719/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0150 - accuracy: 1.0000

Epoch 4720/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0150 - accuracy: 1.0000

Epoch 4721/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0150 - accuracy: 1.0000

Epoch 4722/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0150 - accuracy: 1.0000

Epoch 4723/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0150 - accuracy: 1.0000

Epoch 4724/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0150 - accuracy: 1.0000

Epoch 4725/5000
1/1 [=====] - 0s 0s/step - loss: 0.0150 - accuracy: 1.0000

Epoch 4726/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0150 - accuracy:
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Epoch 4727/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0150 - accuracy:
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Epoch 4728/5000
1/1 [=====] - 0s 0s/step - loss: 0.0150 - accuracy:
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Epoch 4729/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0150 - accuracy:
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Epoch 4730/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0150 - accuracy:
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Epoch 4731/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0150 - accuracy:
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Epoch 4732/5000
1/1 [=====] - 0s 0s/step - loss: 0.0150 - accuracy:
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Epoch 4733/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0150 - accuracy:
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Epoch 4734/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0150 - accuracy:
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Epoch 4735/5000
1/1 [=====] - 0s 0s/step - loss: 0.0149 - accuracy:
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Epoch 4736/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0149 - accuracy:
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Epoch 4737/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0149 - accuracy:
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Epoch 4738/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0149 - accuracy:
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Epoch 4739/5000
1/1 [=====] - 0s 0s/step - loss: 0.0149 - accuracy:
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Epoch 4740/5000
1/1 [=====] - 0s 0s/step - loss: 0.0149 - accuracy:
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Epoch 4741/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0149 - accuracy:
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Epoch 4742/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0149 - accuracy: 1.0000

Epoch 4743/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0149 - accuracy: 1.0000

Epoch 4744/5000
1/1 [=====] - 0s 5ms/step - loss: 0.0149 - accuracy: 1.0000

Epoch 4745/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0149 - accuracy: 1.0000

Epoch 4746/5000
1/1 [=====] - 0s 0s/step - loss: 0.0149 - accuracy: 1.0000

Epoch 4747/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0149 - accuracy: 1.0000

Epoch 4748/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0149 - accuracy: 1.0000

Epoch 4749/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0149 - accuracy: 1.0000

Epoch 4750/5000
1/1 [=====] - 0s 0s/step - loss: 0.0149 - accuracy: 1.0000

Epoch 4751/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0149 - accuracy: 1.0000

Epoch 4752/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0149 - accuracy: 1.0000

Epoch 4753/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0149 - accuracy: 1.0000

Epoch 4754/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0148 - accuracy: 1.0000

Epoch 4755/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0148 - accuracy: 1.0000

Epoch 4756/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0148 - accuracy: 1.0000

Epoch 4757/5000
1/1 [=====] - 0s 0s/step - loss: 0.0148 - accuracy: 1.0000

Epoch 4758/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0148 - accuracy:
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Epoch 4759/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0148 - accuracy:
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Epoch 4760/5000
1/1 [=====] - 0s 0s/step - loss: 0.0148 - accuracy:
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Epoch 4761/5000
1/1 [=====] - 0s 5ms/step - loss: 0.0148 - accuracy:
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Epoch 4762/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0148 - accuracy:
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Epoch 4763/5000
1/1 [=====] - 0s 0s/step - loss: 0.0148 - accuracy:
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Epoch 4764/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0148 - accuracy:
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Epoch 4765/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0148 - accuracy:
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Epoch 4766/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0148 - accuracy:
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Epoch 4767/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0148 - accuracy:
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Epoch 4768/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0148 - accuracy:
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Epoch 4769/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0148 - accuracy:
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Epoch 4770/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0148 - accuracy:
1.0000
Epoch 4771/5000
1/1 [=====] - 0s 0s/step - loss: 0.0148 - accuracy:
1.0000
Epoch 4772/5000
1/1 [=====] - 0s 0s/step - loss: 0.0148 - accuracy:
1.0000
Epoch 4773/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0147 - accuracy:
1.0000

Epoch 4774/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0147 - accuracy:
1.0000

Epoch 4775/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0147 - accuracy:
1.0000

Epoch 4776/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0147 - accuracy:
1.0000

Epoch 4777/5000
1/1 [=====] - 0s 29ms/step - loss: 0.0147 - accuracy:
1.0000

Epoch 4778/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0147 - accuracy:
1.0000

Epoch 4779/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0147 - accuracy:
1.0000

Epoch 4780/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0147 - accuracy:
1.0000

Epoch 4781/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0147 - accuracy:
1.0000

Epoch 4782/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0147 - accuracy:
1.0000

Epoch 4783/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0147 - accuracy:
1.0000

Epoch 4784/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0147 - accuracy:
1.0000

Epoch 4785/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0147 - accuracy:
1.0000

Epoch 4786/5000
1/1 [=====] - 0s 0s/step - loss: 0.0147 - accuracy:
1.0000

Epoch 4787/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0147 - accuracy:
1.0000

Epoch 4788/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0147 - accuracy:
1.0000

Epoch 4789/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0147 - accuracy:
1.0000

Epoch 4790/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0147 - accuracy:
1.0000

Epoch 4791/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0147 - accuracy:
1.0000

Epoch 4792/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0147 - accuracy:
1.0000

Epoch 4793/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0146 - accuracy:
1.0000

Epoch 4794/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0146 - accuracy:
1.0000

Epoch 4795/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0146 - accuracy:
1.0000

Epoch 4796/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0146 - accuracy:
1.0000

Epoch 4797/5000
1/1 [=====] - 0s 0s/step - loss: 0.0146 - accuracy:
1.0000

Epoch 4798/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0146 - accuracy:
1.0000

Epoch 4799/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0146 - accuracy:
1.0000

Epoch 4800/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0146 - accuracy:
1.0000

Epoch 4801/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0146 - accuracy:
1.0000

Epoch 4802/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0146 - accuracy:
1.0000

Epoch 4803/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0146 - accuracy:
1.0000

Epoch 4804/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0146 - accuracy:
1.0000

Epoch 4805/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0146 - accuracy:
1.0000

Epoch 4806/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0146 - accuracy:
1.0000

Epoch 4807/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0146 - accuracy:
1.0000

Epoch 4808/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0146 - accuracy:
1.0000

Epoch 4809/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0146 - accuracy:
1.0000

Epoch 4810/5000
1/1 [=====] - 0s 0s/step - loss: 0.0146 - accuracy:
1.0000

Epoch 4811/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0146 - accuracy:
1.0000

Epoch 4812/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0146 - accuracy:
1.0000

Epoch 4813/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0145 - accuracy:
1.0000

Epoch 4814/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0145 - accuracy:
1.0000

Epoch 4815/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0145 - accuracy:
1.0000

Epoch 4816/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0145 - accuracy:
1.0000

Epoch 4817/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0145 - accuracy:
1.0000

Epoch 4818/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0145 - accuracy:
1.0000

Epoch 4819/5000
1/1 [=====] - 0s 0s/step - loss: 0.0145 - accuracy:
1.0000

Epoch 4820/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0145 - accuracy:
1.0000

Epoch 4821/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0145 - accuracy:
1.0000

Epoch 4822/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0145 - accuracy:
1.0000

Epoch 4823/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0145 - accuracy:
1.0000

Epoch 4824/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0145 - accuracy:
1.0000

Epoch 4825/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0145 - accuracy:
1.0000

Epoch 4826/5000
1/1 [=====] - 0s 0s/step - loss: 0.0145 - accuracy:
1.0000

Epoch 4827/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0145 - accuracy:
1.0000

Epoch 4828/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0145 - accuracy:
1.0000

Epoch 4829/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0145 - accuracy:
1.0000

Epoch 4830/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0145 - accuracy:
1.0000

Epoch 4831/5000
1/1 [=====] - 0s 0s/step - loss: 0.0145 - accuracy:
1.0000

Epoch 4832/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0145 - accuracy:
1.0000

Epoch 4833/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0144 - accuracy:
1.0000

Epoch 4834/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0144 - accuracy:
1.0000

Epoch 4835/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0144 - accuracy:
1.0000

Epoch 4836/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0144 - accuracy:
1.0000

Epoch 4837/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0144 - accuracy:
1.0000

Epoch 4838/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0144 - accuracy:
1.0000

Epoch 4839/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0144 - accuracy:
1.0000

Epoch 4840/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0144 - accuracy:
1.0000

Epoch 4841/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0144 - accuracy:
1.0000

Epoch 4842/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0144 - accuracy:
1.0000

Epoch 4843/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0144 - accuracy:
1.0000

Epoch 4844/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0144 - accuracy:
1.0000

Epoch 4845/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0144 - accuracy:
1.0000

Epoch 4846/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0144 - accuracy:
1.0000

Epoch 4847/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0144 - accuracy:
1.0000

Epoch 4848/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0144 - accuracy:
1.0000

Epoch 4849/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0144 - accuracy:
1.0000

Epoch 4850/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0144 - accuracy:
1.0000

Epoch 4851/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0144 - accuracy:
1.0000

Epoch 4852/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0144 - accuracy:
1.0000

Epoch 4853/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0143 - accuracy:
1.0000

Epoch 4854/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0143 - accuracy:
1.0000

Epoch 4855/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0143 - accuracy:
1.0000

Epoch 4856/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0143 - accuracy:
1.0000

Epoch 4857/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0143 - accuracy:
1.0000

Epoch 4858/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0143 - accuracy:
1.0000

Epoch 4859/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0143 - accuracy:
1.0000

Epoch 4860/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0143 - accuracy:
1.0000

Epoch 4861/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0143 - accuracy:
1.0000

Epoch 4862/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0143 - accuracy:
1.0000

Epoch 4863/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0143 - accuracy:
1.0000

Epoch 4864/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0143 - accuracy:
1.0000

Epoch 4865/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0143 - accuracy:
1.0000

Epoch 4866/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0143 - accuracy:
1.0000

Epoch 4867/5000
1/1 [=====] - 0s 0s/step - loss: 0.0143 - accuracy:
1.0000

Epoch 4868/5000
1/1 [=====] - 0s 0s/step - loss: 0.0143 - accuracy:
1.0000

Epoch 4869/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0143 - accuracy:
1.0000

Epoch 4870/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0143 - accuracy:
1.0000

Epoch 4871/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0143 - accuracy:
1.0000

Epoch 4872/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0143 - accuracy:
1.0000

Epoch 4873/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0142 - accuracy:
1.0000

Epoch 4874/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0142 - accuracy:
1.0000

Epoch 4875/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0142 - accuracy:
1.0000

Epoch 4876/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0142 - accuracy:
1.0000

Epoch 4877/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0142 - accuracy:
1.0000

Epoch 4878/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0142 - accuracy:
1.0000

Epoch 4879/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0142 - accuracy:
1.0000

Epoch 4880/5000
1/1 [=====] - 0s 0s/step - loss: 0.0142 - accuracy:
1.0000

Epoch 4881/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0142 - accuracy:
1.0000

Epoch 4882/5000
1/1 [=====] - 0s 25ms/step - loss: 0.0142 - accuracy:
1.0000

Epoch 4883/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0142 - accuracy:
1.0000

Epoch 4884/5000
1/1 [=====] - 0s 24ms/step - loss: 0.0142 - accuracy:
1.0000

Epoch 4885/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0142 - accuracy:
1.0000

Epoch 4886/5000
1/1 [=====] - 0s 32ms/step - loss: 0.0142 - accuracy:
1.0000

Epoch 4887/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0142 - accuracy:
1.0000

Epoch 4888/5000
1/1 [=====] - 0s 0s/step - loss: 0.0142 - accuracy:
1.0000

Epoch 4889/5000
1/1 [=====] - 0s 5ms/step - loss: 0.0142 - accuracy:
1.0000

Epoch 4890/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0142 - accuracy:
1.0000

Epoch 4891/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0142 - accuracy:
1.0000

Epoch 4892/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0142 - accuracy:
1.0000

Epoch 4893/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0141 - accuracy:
1.0000

Epoch 4894/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0141 - accuracy:
1.0000

Epoch 4895/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0141 - accuracy:
1.0000

Epoch 4896/5000
1/1 [=====] - 0s 0s/step - loss: 0.0141 - accuracy:
1.0000

Epoch 4897/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0141 - accuracy:
1.0000

Epoch 4898/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0141 - accuracy:
1.0000

Epoch 4899/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0141 - accuracy:
1.0000

Epoch 4900/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0141 - accuracy:
1.0000

Epoch 4901/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0141 - accuracy:
1.0000

Epoch 4902/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0141 - accuracy:
1.0000

Epoch 4903/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0141 - accuracy:
1.0000

Epoch 4904/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0141 - accuracy:
1.0000

Epoch 4905/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0141 - accuracy:
1.0000

Epoch 4906/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0141 - accuracy:
1.0000

Epoch 4907/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0141 - accuracy:
1.0000

Epoch 4908/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0141 - accuracy:
1.0000

Epoch 4909/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0141 - accuracy:
1.0000

Epoch 4910/5000
1/1 [=====] - 0s 0s/step - loss: 0.0141 - accuracy:
1.0000

Epoch 4911/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0141 - accuracy:
1.0000

Epoch 4912/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0141 - accuracy:
1.0000

Epoch 4913/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0141 - accuracy:
1.0000

Epoch 4914/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0140 - accuracy:
1.0000

Epoch 4915/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0140 - accuracy:
1.0000

Epoch 4916/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0140 - accuracy:
1.0000

Epoch 4917/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0140 - accuracy:
1.0000

Epoch 4918/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0140 - accuracy:
1.0000
Epoch 4919/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0140 - accuracy:
1.0000
Epoch 4920/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0140 - accuracy:
1.0000
Epoch 4921/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0140 - accuracy:
1.0000
Epoch 4922/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0140 - accuracy:
1.0000
Epoch 4923/5000
1/1 [=====] - 0s 22ms/step - loss: 0.0140 - accuracy:
1.0000
Epoch 4924/5000
1/1 [=====] - 0s 0s/step - loss: 0.0140 - accuracy:
1.0000
Epoch 4925/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0140 - accuracy:
1.0000
Epoch 4926/5000
1/1 [=====] - 0s 21ms/step - loss: 0.0140 - accuracy:
1.0000
Epoch 4927/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0140 - accuracy:
1.0000
Epoch 4928/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0140 - accuracy:
1.0000
Epoch 4929/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0140 - accuracy:
1.0000
Epoch 4930/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0140 - accuracy:
1.0000
Epoch 4931/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0140 - accuracy:
1.0000
Epoch 4932/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0140 - accuracy:
1.0000
Epoch 4933/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0140 - accuracy:
1.0000

Epoch 4934/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0140 - accuracy:
1.0000

Epoch 4935/5000
1/1 [=====] - 0s 4ms/step - loss: 0.0139 - accuracy:
1.0000

Epoch 4936/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0139 - accuracy:
1.0000

Epoch 4937/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0139 - accuracy:
1.0000

Epoch 4938/5000
1/1 [=====] - 0s 23ms/step - loss: 0.0139 - accuracy:
1.0000

Epoch 4939/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0139 - accuracy:
1.0000

Epoch 4940/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0139 - accuracy:
1.0000

Epoch 4941/5000
1/1 [=====] - 0s 6ms/step - loss: 0.0139 - accuracy:
1.0000

Epoch 4942/5000
1/1 [=====] - 0s 0s/step - loss: 0.0139 - accuracy:
1.0000

Epoch 4943/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0139 - accuracy:
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Epoch 4944/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0139 - accuracy:
1.0000

Epoch 4945/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0139 - accuracy:
1.0000

Epoch 4946/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0139 - accuracy:
1.0000

Epoch 4947/5000
1/1 [=====] - 0s 0s/step - loss: 0.0139 - accuracy:
1.0000

Epoch 4948/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0139 - accuracy:
1.0000

Epoch 4949/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0139 - accuracy:
1.0000

Epoch 4950/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0139 - accuracy:
1.0000

Epoch 4951/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0139 - accuracy:
1.0000

Epoch 4952/5000
1/1 [=====] - 0s 0s/step - loss: 0.0139 - accuracy:
1.0000

Epoch 4953/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0139 - accuracy:
1.0000

Epoch 4954/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0139 - accuracy:
1.0000

Epoch 4955/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0139 - accuracy:
1.0000

Epoch 4956/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0138 - accuracy:
1.0000

Epoch 4957/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0138 - accuracy:
1.0000

Epoch 4958/5000
1/1 [=====] - 0s 15ms/step - loss: 0.0138 - accuracy:
1.0000

Epoch 4959/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0138 - accuracy:
1.0000

Epoch 4960/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0138 - accuracy:
1.0000

Epoch 4961/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0138 - accuracy:
1.0000

Epoch 4962/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0138 - accuracy:
1.0000

Epoch 4963/5000
1/1 [=====] - 0s 19ms/step - loss: 0.0138 - accuracy:
1.0000

Epoch 4964/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0138 - accuracy:
1.0000

Epoch 4965/5000
1/1 [=====] - 0s 33ms/step - loss: 0.0138 - accuracy:
1.0000

Epoch 4966/5000
1/1 [=====] - 0s 11ms/step - loss: 0.0138 - accuracy:
1.0000

Epoch 4967/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0138 - accuracy:
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Epoch 4968/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0138 - accuracy:
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Epoch 4969/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0138 - accuracy:
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Epoch 4970/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0138 - accuracy:
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Epoch 4971/5000
1/1 [=====] - 0s 2ms/step - loss: 0.0138 - accuracy:
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Epoch 4972/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0138 - accuracy:
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Epoch 4973/5000
1/1 [=====] - 0s 0s/step - loss: 0.0138 - accuracy:
1.0000

Epoch 4974/5000
1/1 [=====] - 0s 8ms/step - loss: 0.0138 - accuracy:
1.0000

Epoch 4975/5000
1/1 [=====] - 0s 5ms/step - loss: 0.0138 - accuracy:
1.0000

Epoch 4976/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0138 - accuracy:
1.0000

Epoch 4977/5000
1/1 [=====] - 0s 0s/step - loss: 0.0137 - accuracy:
1.0000

Epoch 4978/5000
1/1 [=====] - 0s 9ms/step - loss: 0.0137 - accuracy:
1.0000

Epoch 4979/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0137 - accuracy:
1.0000

Epoch 4980/5000
1/1 [=====] - 0s 13ms/step - loss: 0.0137 - accuracy:
1.0000

Epoch 4981/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0137 - accuracy:
1.0000

Epoch 4982/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0137 - accuracy: 1.0000

Epoch 4983/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0137 - accuracy: 1.0000

Epoch 4984/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0137 - accuracy: 1.0000

Epoch 4985/5000
1/1 [=====] - 0s 14ms/step - loss: 0.0137 - accuracy: 1.0000

Epoch 4986/5000
1/1 [=====] - 0s 17ms/step - loss: 0.0137 - accuracy: 1.0000

Epoch 4987/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0137 - accuracy: 1.0000

Epoch 4988/5000
1/1 [=====] - 0s 20ms/step - loss: 0.0137 - accuracy: 1.0000

Epoch 4989/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0137 - accuracy: 1.0000

Epoch 4990/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0137 - accuracy: 1.0000

Epoch 4991/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0137 - accuracy: 1.0000

Epoch 4992/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0137 - accuracy: 1.0000

Epoch 4993/5000
1/1 [=====] - 0s 16ms/step - loss: 0.0137 - accuracy: 1.0000

Epoch 4994/5000
1/1 [=====] - 0s 26ms/step - loss: 0.0137 - accuracy: 1.0000

Epoch 4995/5000
1/1 [=====] - 0s 18ms/step - loss: 0.0137 - accuracy: 1.0000

Epoch 4996/5000
1/1 [=====] - 0s 12ms/step - loss: 0.0137 - accuracy: 1.0000

Epoch 4997/5000
1/1 [=====] - 0s 10ms/step - loss: 0.0137 - accuracy: 1.0000

```
Epoch 4998/5000
1/1 [=====] - 0s 3ms/step - loss: 0.0136 - accuracy:
1.0000
Epoch 4999/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0136 - accuracy:
1.0000
Epoch 5000/5000
1/1 [=====] - 0s 7ms/step - loss: 0.0136 - accuracy:
1.0000
```

```
[10]: predictions = model.predict(X)
print("Predictions:\n", predictions.flatten())
predictions = (predictions > 0.5).astype(int) # Convert to 0 or 1
print("Predictions:\n", predictions.flatten())
```

```
1/1 [=====] - 0s 279ms/step
Predictions:
[0.01420271 0.9847937 0.9878713 0.01261358]
Predictions:
[0 1 1 0]
```

```
[11]: print(tf.config.list_physical_devices('GPU'))
```

```
[PhysicalDevice(name='/physical_device:GPU:0', device_type='GPU')]
```