**ANN Training Logs (TensorFlow and Keras)**

**For Models with Sigmoid Functions only**

**Mathematics**

Epoch 1/1000

8/8 [==============================] - 1s 2ms/step - loss: 0.7091 - accuracy: 0.3755

Epoch 2/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.6632 - accuracy: 0.6835

Epoch 3/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.6258 - accuracy: 0.7890

Epoch 4/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.5957 - accuracy: 0.7806

Epoch 5/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.5715 - accuracy: 0.7679

Epoch 6/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.5511 - accuracy: 0.7637

Epoch 7/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.5345 - accuracy: 0.7553

Epoch 8/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.5210 - accuracy: 0.7553

Epoch 9/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.5087 - accuracy: 0.7637

Epoch 10/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.4978 - accuracy: 0.7637

Epoch 11/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.4879 - accuracy: 0.7679

Epoch 12/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.4789 - accuracy: 0.7679

Epoch 13/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.4706 - accuracy: 0.7679

Epoch 14/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.4624 - accuracy: 0.7722

Epoch 15/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.4548 - accuracy: 0.7764

Epoch 16/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.4476 - accuracy: 0.7932

Epoch 17/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.4400 - accuracy: 0.7975

Epoch 18/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.4328 - accuracy: 0.8059

Epoch 19/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.4259 - accuracy: 0.8228

Epoch 20/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.4193 - accuracy: 0.8270

Epoch 21/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.4128 - accuracy: 0.8312

Epoch 22/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.4068 - accuracy: 0.8354

Epoch 23/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.4003 - accuracy: 0.8354

Epoch 24/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.3941 - accuracy: 0.8397

Epoch 25/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.3887 - accuracy: 0.8439

Epoch 26/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.3822 - accuracy: 0.8565

Epoch 27/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.3770 - accuracy: 0.8523

Epoch 28/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.3711 - accuracy: 0.8565

Epoch 29/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.3661 - accuracy: 0.8608

Epoch 30/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.3607 - accuracy: 0.8650

Epoch 31/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.3553 - accuracy: 0.8650

Epoch 32/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.3505 - accuracy: 0.8650

Epoch 33/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.3457 - accuracy: 0.8650

Epoch 34/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.3409 - accuracy: 0.8608

Epoch 35/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.3360 - accuracy: 0.8608

Epoch 36/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.3313 - accuracy: 0.8650

Epoch 37/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.3268 - accuracy: 0.8650

Epoch 38/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.3224 - accuracy: 0.8650

Epoch 39/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.3180 - accuracy: 0.8650

Epoch 40/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.3139 - accuracy: 0.8650

Epoch 41/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.3103 - accuracy: 0.8650

Epoch 42/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.3059 - accuracy: 0.8692

Epoch 43/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.3023 - accuracy: 0.8692

Epoch 44/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.2980 - accuracy: 0.8734

Epoch 45/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.2944 - accuracy: 0.8776

Epoch 46/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.2908 - accuracy: 0.8776

Epoch 47/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.2869 - accuracy: 0.8776

Epoch 48/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.2835 - accuracy: 0.8776

Epoch 49/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.2802 - accuracy: 0.8819

Epoch 50/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.2767 - accuracy: 0.8861

Epoch 51/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.2737 - accuracy: 0.8861

Epoch 52/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.2704 - accuracy: 0.8903

Epoch 53/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.2669 - accuracy: 0.8945

Epoch 54/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.2641 - accuracy: 0.8987

Epoch 55/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.2609 - accuracy: 0.8987

Epoch 56/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.2578 - accuracy: 0.8987

Epoch 57/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.2549 - accuracy: 0.9030

Epoch 58/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.2519 - accuracy: 0.9030

Epoch 59/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.2492 - accuracy: 0.9030

Epoch 60/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.2465 - accuracy: 0.9030

Epoch 61/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.2438 - accuracy: 0.9030

Epoch 62/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.2411 - accuracy: 0.9030

Epoch 63/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.2386 - accuracy: 0.9030

Epoch 64/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.2361 - accuracy: 0.9072

Epoch 65/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.2335 - accuracy: 0.9114

Epoch 66/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.2311 - accuracy: 0.9114

Epoch 67/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.2289 - accuracy: 0.9156

Epoch 68/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.2264 - accuracy: 0.9198

Epoch 69/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.2240 - accuracy: 0.9156

Epoch 70/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.2217 - accuracy: 0.9156

Epoch 71/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.2197 - accuracy: 0.9156

Epoch 72/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.2175 - accuracy: 0.9156

Epoch 73/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.2154 - accuracy: 0.9241

Epoch 74/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.2132 - accuracy: 0.9283

Epoch 75/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.2112 - accuracy: 0.9241

Epoch 76/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.2093 - accuracy: 0.9241

Epoch 77/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.2072 - accuracy: 0.9325

Epoch 78/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.2052 - accuracy: 0.9409

Epoch 79/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.2035 - accuracy: 0.9367

Epoch 80/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.2015 - accuracy: 0.9409

Epoch 81/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1996 - accuracy: 0.9409

Epoch 82/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1981 - accuracy: 0.9367

Epoch 83/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1961 - accuracy: 0.9325

Epoch 84/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.1944 - accuracy: 0.9409

Epoch 85/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.1926 - accuracy: 0.9451

Epoch 86/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.1908 - accuracy: 0.9451

Epoch 87/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1892 - accuracy: 0.9494

Epoch 88/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1877 - accuracy: 0.9451

Epoch 89/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.1861 - accuracy: 0.9451

Epoch 90/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1847 - accuracy: 0.9451

Epoch 91/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1832 - accuracy: 0.9451

Epoch 92/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1816 - accuracy: 0.9451

Epoch 93/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1802 - accuracy: 0.9451

Epoch 94/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1788 - accuracy: 0.9451

Epoch 95/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1772 - accuracy: 0.9494

Epoch 96/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1761 - accuracy: 0.9451

Epoch 97/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1748 - accuracy: 0.9451

Epoch 98/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1732 - accuracy: 0.9494

Epoch 99/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1719 - accuracy: 0.9536

Epoch 100/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1707 - accuracy: 0.9536

Epoch 101/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1700 - accuracy: 0.9536

Epoch 102/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1681 - accuracy: 0.9578

Epoch 103/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1672 - accuracy: 0.9578

Epoch 104/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1656 - accuracy: 0.9578

Epoch 105/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1648 - accuracy: 0.9494

Epoch 106/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1637 - accuracy: 0.9536

Epoch 107/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1624 - accuracy: 0.9578

Epoch 108/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1613 - accuracy: 0.9578

Epoch 109/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1600 - accuracy: 0.9578

Epoch 110/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1593 - accuracy: 0.9578

Epoch 111/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1582 - accuracy: 0.9578

Epoch 112/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1570 - accuracy: 0.9578

Epoch 113/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1563 - accuracy: 0.9578

Epoch 114/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1552 - accuracy: 0.9578

Epoch 115/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.1544 - accuracy: 0.9578

Epoch 116/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1532 - accuracy: 0.9620

Epoch 117/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.1521 - accuracy: 0.9620

Epoch 118/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1512 - accuracy: 0.9620

Epoch 119/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1502 - accuracy: 0.9620

Epoch 120/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1496 - accuracy: 0.9620

Epoch 121/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1485 - accuracy: 0.9620

Epoch 122/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1476 - accuracy: 0.9620

Epoch 123/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1467 - accuracy: 0.9620

Epoch 124/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.1459 - accuracy: 0.9662

Epoch 125/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1452 - accuracy: 0.9662

Epoch 126/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1441 - accuracy: 0.9620

Epoch 127/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1433 - accuracy: 0.9620

Epoch 128/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1427 - accuracy: 0.9578

Epoch 129/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1419 - accuracy: 0.9620

Epoch 130/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1413 - accuracy: 0.9620

Epoch 131/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1402 - accuracy: 0.9620

Epoch 132/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1394 - accuracy: 0.9620

Epoch 133/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1388 - accuracy: 0.9662

Epoch 134/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1382 - accuracy: 0.9662

Epoch 135/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.1372 - accuracy: 0.9662

Epoch 136/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1368 - accuracy: 0.9662

Epoch 137/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1360 - accuracy: 0.9620

Epoch 138/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1353 - accuracy: 0.9620

Epoch 139/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1347 - accuracy: 0.9620

Epoch 140/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1340 - accuracy: 0.9620

Epoch 141/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1332 - accuracy: 0.9620

Epoch 142/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.1326 - accuracy: 0.9620

Epoch 143/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1320 - accuracy: 0.9620

Epoch 144/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1315 - accuracy: 0.9620

Epoch 145/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1308 - accuracy: 0.9578

Epoch 146/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1301 - accuracy: 0.9578

Epoch 147/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.1293 - accuracy: 0.9620

Epoch 148/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1289 - accuracy: 0.9620

Epoch 149/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.1284 - accuracy: 0.9620

Epoch 150/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1279 - accuracy: 0.9620

Epoch 151/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1271 - accuracy: 0.9620

Epoch 152/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.1265 - accuracy: 0.9620

Epoch 153/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1263 - accuracy: 0.9620

Epoch 154/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1255 - accuracy: 0.9620

Epoch 155/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1250 - accuracy: 0.9620

Epoch 156/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.1243 - accuracy: 0.9620

Epoch 157/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1239 - accuracy: 0.9620

Epoch 158/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1232 - accuracy: 0.9662

Epoch 159/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1229 - accuracy: 0.9662

Epoch 160/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1224 - accuracy: 0.9662

Epoch 161/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1218 - accuracy: 0.9662

Epoch 162/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1211 - accuracy: 0.9662

Epoch 163/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1208 - accuracy: 0.9662

Epoch 164/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1199 - accuracy: 0.9662

Epoch 165/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1198 - accuracy: 0.9662

Epoch 166/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1193 - accuracy: 0.9662

Epoch 167/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1187 - accuracy: 0.9662

Epoch 168/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1181 - accuracy: 0.9620

Epoch 169/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.1176 - accuracy: 0.9620

Epoch 170/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1175 - accuracy: 0.9620

Epoch 171/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.1166 - accuracy: 0.9662

Epoch 172/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.1165 - accuracy: 0.9620

Epoch 173/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.1160 - accuracy: 0.9620

Epoch 174/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.1154 - accuracy: 0.9620

Epoch 175/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1149 - accuracy: 0.9620

Epoch 176/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1147 - accuracy: 0.9620

Epoch 177/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1138 - accuracy: 0.9662

Epoch 178/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1136 - accuracy: 0.9662

Epoch 179/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1130 - accuracy: 0.9662

Epoch 180/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1128 - accuracy: 0.9662

Epoch 181/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1123 - accuracy: 0.9662

Epoch 182/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1120 - accuracy: 0.9662

Epoch 183/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1117 - accuracy: 0.9662

Epoch 184/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.1110 - accuracy: 0.9662

Epoch 185/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1103 - accuracy: 0.9662

Epoch 186/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1097 - accuracy: 0.9662

Epoch 187/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1094 - accuracy: 0.9662

Epoch 188/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1090 - accuracy: 0.9662

Epoch 189/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1087 - accuracy: 0.9662

Epoch 190/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1082 - accuracy: 0.9662

Epoch 191/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.1079 - accuracy: 0.9662

Epoch 192/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1074 - accuracy: 0.9662

Epoch 193/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1071 - accuracy: 0.9662

Epoch 194/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1067 - accuracy: 0.9662

Epoch 195/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1060 - accuracy: 0.9662

Epoch 196/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1059 - accuracy: 0.9662

Epoch 197/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.1053 - accuracy: 0.9662

Epoch 198/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1050 - accuracy: 0.9662

Epoch 199/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1047 - accuracy: 0.9662

Epoch 200/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1041 - accuracy: 0.9705

Epoch 201/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1041 - accuracy: 0.9705

Epoch 202/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.1036 - accuracy: 0.9662

Epoch 203/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.1031 - accuracy: 0.9662

Epoch 204/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.1024 - accuracy: 0.9705

Epoch 205/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.1021 - accuracy: 0.9662

Epoch 206/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.1018 - accuracy: 0.9662

Epoch 207/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1011 - accuracy: 0.9662

Epoch 208/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1009 - accuracy: 0.9662

Epoch 209/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1004 - accuracy: 0.9662

Epoch 210/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.1002 - accuracy: 0.9662

Epoch 211/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0997 - accuracy: 0.9662

Epoch 212/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0992 - accuracy: 0.9662

Epoch 213/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0991 - accuracy: 0.9662

Epoch 214/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0986 - accuracy: 0.9705

Epoch 215/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0982 - accuracy: 0.9705

Epoch 216/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0979 - accuracy: 0.9705

Epoch 217/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0976 - accuracy: 0.9662

Epoch 218/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0971 - accuracy: 0.9662

Epoch 219/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0968 - accuracy: 0.9705

Epoch 220/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0958 - accuracy: 0.9705

Epoch 221/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0956 - accuracy: 0.9705

Epoch 222/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0954 - accuracy: 0.9705

Epoch 223/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0950 - accuracy: 0.9705

Epoch 224/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0947 - accuracy: 0.9705

Epoch 225/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0940 - accuracy: 0.9705

Epoch 226/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0936 - accuracy: 0.9705

Epoch 227/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0932 - accuracy: 0.9747

Epoch 228/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0930 - accuracy: 0.9747

Epoch 229/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0925 - accuracy: 0.9747

Epoch 230/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0924 - accuracy: 0.9747

Epoch 231/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0919 - accuracy: 0.9747

Epoch 232/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0916 - accuracy: 0.9747

Epoch 233/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0915 - accuracy: 0.9747

Epoch 234/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0907 - accuracy: 0.9747

Epoch 235/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0906 - accuracy: 0.9747

Epoch 236/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0899 - accuracy: 0.9747

Epoch 237/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0894 - accuracy: 0.9747

Epoch 238/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0891 - accuracy: 0.9747

Epoch 239/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0887 - accuracy: 0.9747

Epoch 240/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0883 - accuracy: 0.9789

Epoch 241/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0884 - accuracy: 0.9789

Epoch 242/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0876 - accuracy: 0.9747

Epoch 243/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0872 - accuracy: 0.9747

Epoch 244/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0869 - accuracy: 0.9789

Epoch 245/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0866 - accuracy: 0.9747

Epoch 246/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0862 - accuracy: 0.9789

Epoch 247/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0857 - accuracy: 0.9747

Epoch 248/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0852 - accuracy: 0.9747

Epoch 249/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0849 - accuracy: 0.9789

Epoch 250/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0846 - accuracy: 0.9789

Epoch 251/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0844 - accuracy: 0.9789

Epoch 252/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0839 - accuracy: 0.9789

Epoch 253/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0835 - accuracy: 0.9747

Epoch 254/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0830 - accuracy: 0.9747

Epoch 255/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0828 - accuracy: 0.9747

Epoch 256/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0825 - accuracy: 0.9747

Epoch 257/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0820 - accuracy: 0.9747

Epoch 258/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0815 - accuracy: 0.9747

Epoch 259/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0813 - accuracy: 0.9747

Epoch 260/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0808 - accuracy: 0.9747

Epoch 261/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0804 - accuracy: 0.9747

Epoch 262/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0800 - accuracy: 0.9747

Epoch 263/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0797 - accuracy: 0.9747

Epoch 264/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0794 - accuracy: 0.9789

Epoch 265/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0790 - accuracy: 0.9789

Epoch 266/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0786 - accuracy: 0.9789

Epoch 267/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0782 - accuracy: 0.9789

Epoch 268/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0779 - accuracy: 0.9789

Epoch 269/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0774 - accuracy: 0.9789

Epoch 270/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0769 - accuracy: 0.9789

Epoch 271/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0768 - accuracy: 0.9789

Epoch 272/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0762 - accuracy: 0.9789

Epoch 273/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0758 - accuracy: 0.9789

Epoch 274/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0754 - accuracy: 0.9789

Epoch 275/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0751 - accuracy: 0.9789

Epoch 276/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0748 - accuracy: 0.9789

Epoch 277/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0743 - accuracy: 0.9789

Epoch 278/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0740 - accuracy: 0.9789

Epoch 279/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0737 - accuracy: 0.9789

Epoch 280/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0732 - accuracy: 0.9789

Epoch 281/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0729 - accuracy: 0.9831

Epoch 282/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0724 - accuracy: 0.9789

Epoch 283/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0723 - accuracy: 0.9789

Epoch 284/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0723 - accuracy: 0.9789

Epoch 285/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0717 - accuracy: 0.9789

Epoch 286/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0714 - accuracy: 0.9831

Epoch 287/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0709 - accuracy: 0.9831

Epoch 288/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0705 - accuracy: 0.9831

Epoch 289/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0700 - accuracy: 0.9831

Epoch 290/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0697 - accuracy: 0.9831

Epoch 291/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0693 - accuracy: 0.9831

Epoch 292/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0691 - accuracy: 0.9831

Epoch 293/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0688 - accuracy: 0.9831

Epoch 294/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0683 - accuracy: 0.9831

Epoch 295/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0682 - accuracy: 0.9831

Epoch 296/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0675 - accuracy: 0.9831

Epoch 297/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0672 - accuracy: 0.9831

Epoch 298/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0668 - accuracy: 0.9831

Epoch 299/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0668 - accuracy: 0.9831

Epoch 300/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0661 - accuracy: 0.9831

Epoch 301/1000

8/8 [==============================] - 0s 5ms/step - loss: 0.0658 - accuracy: 0.9831

Epoch 302/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0655 - accuracy: 0.9831

Epoch 303/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0651 - accuracy: 0.9831

Epoch 304/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0649 - accuracy: 0.9831

Epoch 305/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0643 - accuracy: 0.9831

Epoch 306/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0642 - accuracy: 0.9831

Epoch 307/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0638 - accuracy: 0.9831

Epoch 308/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0635 - accuracy: 0.9831

Epoch 309/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0629 - accuracy: 0.9831

Epoch 310/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0627 - accuracy: 0.9831

Epoch 311/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0624 - accuracy: 0.9831

Epoch 312/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0618 - accuracy: 0.9831

Epoch 313/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0617 - accuracy: 0.9831

Epoch 314/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0614 - accuracy: 0.9831

Epoch 315/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0608 - accuracy: 0.9831

Epoch 316/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0605 - accuracy: 0.9831

Epoch 317/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0602 - accuracy: 0.9831

Epoch 318/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0599 - accuracy: 0.9831

Epoch 319/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0596 - accuracy: 0.9831

Epoch 320/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0594 - accuracy: 0.9831

Epoch 321/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0589 - accuracy: 0.9831

Epoch 322/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0586 - accuracy: 0.9831

Epoch 323/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0583 - accuracy: 0.9831

Epoch 324/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0581 - accuracy: 0.9831

Epoch 325/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0577 - accuracy: 0.9831

Epoch 326/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0574 - accuracy: 0.9831

Epoch 327/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0572 - accuracy: 0.9831

Epoch 328/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0565 - accuracy: 0.9831

Epoch 329/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0563 - accuracy: 0.9831

Epoch 330/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0559 - accuracy: 0.9831

Epoch 331/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0556 - accuracy: 0.9831

Epoch 332/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0552 - accuracy: 0.9831

Epoch 333/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0549 - accuracy: 0.9831

Epoch 334/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0547 - accuracy: 0.9831

Epoch 335/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0544 - accuracy: 0.9831

Epoch 336/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0541 - accuracy: 0.9831

Epoch 337/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0537 - accuracy: 0.9831

Epoch 338/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0533 - accuracy: 0.9831

Epoch 339/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0530 - accuracy: 0.9831

Epoch 340/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0526 - accuracy: 0.9831

Epoch 341/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0525 - accuracy: 0.9831

Epoch 342/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0524 - accuracy: 0.9831

Epoch 343/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0519 - accuracy: 0.9831

Epoch 344/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0516 - accuracy: 0.9873

Epoch 345/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0513 - accuracy: 0.9873

Epoch 346/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0509 - accuracy: 0.9831

Epoch 347/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0505 - accuracy: 0.9873

Epoch 348/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0503 - accuracy: 0.9873

Epoch 349/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0501 - accuracy: 0.9873

Epoch 350/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0497 - accuracy: 0.9873

Epoch 351/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0494 - accuracy: 0.9831

Epoch 352/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0491 - accuracy: 0.9831

Epoch 353/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0489 - accuracy: 0.9831

Epoch 354/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0485 - accuracy: 0.9831

Epoch 355/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0483 - accuracy: 0.9831

Epoch 356/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0479 - accuracy: 0.9831

Epoch 357/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0477 - accuracy: 0.9873

Epoch 358/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0473 - accuracy: 0.9873

Epoch 359/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0470 - accuracy: 0.9873

Epoch 360/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0468 - accuracy: 0.9873

Epoch 361/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0464 - accuracy: 0.9873

Epoch 362/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0463 - accuracy: 0.9873

Epoch 363/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0460 - accuracy: 0.9873

Epoch 364/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0457 - accuracy: 0.9873

Epoch 365/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0454 - accuracy: 0.9873

Epoch 366/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0452 - accuracy: 0.9873

Epoch 367/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0453 - accuracy: 0.9873

Epoch 368/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0447 - accuracy: 0.9916

Epoch 369/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0444 - accuracy: 0.9916

Epoch 370/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0440 - accuracy: 0.9873

Epoch 371/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0438 - accuracy: 0.9873

Epoch 372/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0435 - accuracy: 0.9873

Epoch 373/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0432 - accuracy: 0.9873

Epoch 374/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0429 - accuracy: 0.9873

Epoch 375/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0427 - accuracy: 0.9873

Epoch 376/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0424 - accuracy: 0.9873

Epoch 377/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0422 - accuracy: 0.9873

Epoch 378/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0418 - accuracy: 0.9873

Epoch 379/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0416 - accuracy: 0.9873

Epoch 380/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0413 - accuracy: 0.9873

Epoch 381/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0413 - accuracy: 0.9873

Epoch 382/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0409 - accuracy: 0.9958

Epoch 383/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0405 - accuracy: 0.9958

Epoch 384/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0403 - accuracy: 0.9958

Epoch 385/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0403 - accuracy: 0.9916

Epoch 386/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0397 - accuracy: 0.9873

Epoch 387/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0396 - accuracy: 0.9916

Epoch 388/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0393 - accuracy: 0.9958

Epoch 389/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0390 - accuracy: 0.9958

Epoch 390/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0388 - accuracy: 0.9958

Epoch 391/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0386 - accuracy: 0.9958

Epoch 392/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0384 - accuracy: 0.9958

Epoch 393/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0380 - accuracy: 0.9958

Epoch 394/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0379 - accuracy: 0.9958

Epoch 395/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0376 - accuracy: 0.9958

Epoch 396/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0374 - accuracy: 0.9958

Epoch 397/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0372 - accuracy: 0.9958

Epoch 398/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0369 - accuracy: 0.9958

Epoch 399/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0366 - accuracy: 0.9958

Epoch 400/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0364 - accuracy: 0.9958

Epoch 401/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0362 - accuracy: 0.9958

Epoch 402/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0360 - accuracy: 0.9958

Epoch 403/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0356 - accuracy: 1.0000

Epoch 404/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0354 - accuracy: 1.0000

Epoch 405/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0352 - accuracy: 1.0000

Epoch 406/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0350 - accuracy: 1.0000

Epoch 407/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0348 - accuracy: 1.0000

Epoch 408/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0346 - accuracy: 1.0000

Epoch 409/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0343 - accuracy: 1.0000

Epoch 410/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0342 - accuracy: 1.0000

Epoch 411/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0338 - accuracy: 1.0000

Epoch 412/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0336 - accuracy: 1.0000

Epoch 413/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0335 - accuracy: 1.0000

Epoch 414/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0332 - accuracy: 1.0000

Epoch 415/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0332 - accuracy: 1.0000

Epoch 416/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0328 - accuracy: 1.0000

Epoch 417/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0326 - accuracy: 1.0000

Epoch 418/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0323 - accuracy: 1.0000

Epoch 419/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0321 - accuracy: 1.0000

Epoch 420/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0319 - accuracy: 1.0000

Epoch 421/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0318 - accuracy: 1.0000

Epoch 422/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0316 - accuracy: 1.0000

Epoch 423/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0314 - accuracy: 1.0000

Epoch 424/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0313 - accuracy: 1.0000

Epoch 425/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0308 - accuracy: 1.0000

Epoch 426/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0306 - accuracy: 1.0000

Epoch 427/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0304 - accuracy: 1.0000

Epoch 428/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0304 - accuracy: 1.0000

Epoch 429/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0301 - accuracy: 1.0000

Epoch 430/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0298 - accuracy: 1.0000

Epoch 431/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0297 - accuracy: 1.0000

Epoch 432/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0295 - accuracy: 1.0000

Epoch 433/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0293 - accuracy: 1.0000

Epoch 434/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0292 - accuracy: 1.0000

Epoch 435/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0290 - accuracy: 1.0000

Epoch 436/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0288 - accuracy: 1.0000

Epoch 437/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0286 - accuracy: 1.0000

Epoch 438/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0284 - accuracy: 1.0000

Epoch 439/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0282 - accuracy: 1.0000

Epoch 440/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0280 - accuracy: 1.0000

Epoch 441/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0278 - accuracy: 1.0000

Epoch 442/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0277 - accuracy: 1.0000

Epoch 443/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0275 - accuracy: 1.0000

Epoch 444/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0273 - accuracy: 1.0000

Epoch 445/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0272 - accuracy: 1.0000

Epoch 446/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0270 - accuracy: 1.0000

Epoch 447/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0268 - accuracy: 1.0000

Epoch 448/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0267 - accuracy: 1.0000

Epoch 449/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0266 - accuracy: 1.0000

Epoch 450/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0262 - accuracy: 1.0000

Epoch 451/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0261 - accuracy: 1.0000

Epoch 452/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0258 - accuracy: 1.0000

Epoch 453/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0257 - accuracy: 1.0000

Epoch 454/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0255 - accuracy: 1.0000

Epoch 455/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0254 - accuracy: 1.0000

Epoch 456/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0253 - accuracy: 1.0000

Epoch 457/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0252 - accuracy: 1.0000

Epoch 458/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0250 - accuracy: 1.0000

Epoch 459/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0248 - accuracy: 1.0000

Epoch 460/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0246 - accuracy: 1.0000

Epoch 461/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0244 - accuracy: 1.0000

Epoch 462/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0243 - accuracy: 1.0000

Epoch 463/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0241 - accuracy: 1.0000

Epoch 464/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0239 - accuracy: 1.0000

Epoch 465/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0238 - accuracy: 1.0000

Epoch 466/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0236 - accuracy: 1.0000

Epoch 467/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0234 - accuracy: 1.0000

Epoch 468/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0233 - accuracy: 1.0000

Epoch 469/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0232 - accuracy: 1.0000

Epoch 470/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0231 - accuracy: 1.0000

Epoch 471/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0230 - accuracy: 1.0000

Epoch 472/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0227 - accuracy: 1.0000

Epoch 473/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0226 - accuracy: 1.0000

Epoch 474/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0224 - accuracy: 1.0000

Epoch 475/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0222 - accuracy: 1.0000

Epoch 476/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0221 - accuracy: 1.0000

Epoch 477/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0219 - accuracy: 1.0000

Epoch 478/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0218 - accuracy: 1.0000

Epoch 479/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0217 - accuracy: 1.0000

Epoch 480/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0215 - accuracy: 1.0000

Epoch 481/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0214 - accuracy: 1.0000

Epoch 482/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0212 - accuracy: 1.0000

Epoch 483/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0211 - accuracy: 1.0000

Epoch 484/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0210 - accuracy: 1.0000

Epoch 485/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0208 - accuracy: 1.0000

Epoch 486/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0207 - accuracy: 1.0000

Epoch 487/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0206 - accuracy: 1.0000

Epoch 488/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0205 - accuracy: 1.0000

Epoch 489/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0203 - accuracy: 1.0000

Epoch 490/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0202 - accuracy: 1.0000

Epoch 491/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0200 - accuracy: 1.0000

Epoch 492/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0200 - accuracy: 1.0000

Epoch 493/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0198 - accuracy: 1.0000

Epoch 494/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0196 - accuracy: 1.0000

Epoch 495/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0196 - accuracy: 1.0000

Epoch 496/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0194 - accuracy: 1.0000

Epoch 497/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0193 - accuracy: 1.0000

Epoch 498/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0191 - accuracy: 1.0000

Epoch 499/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0190 - accuracy: 1.0000

Epoch 500/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0189 - accuracy: 1.0000

Epoch 501/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0188 - accuracy: 1.0000

Epoch 502/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0186 - accuracy: 1.0000

Epoch 503/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0185 - accuracy: 1.0000

Epoch 504/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0184 - accuracy: 1.0000

Epoch 505/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0183 - accuracy: 1.0000

Epoch 506/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0182 - accuracy: 1.0000

Epoch 507/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0180 - accuracy: 1.0000

Epoch 508/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0180 - accuracy: 1.0000

Epoch 509/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0178 - accuracy: 1.0000

Epoch 510/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0177 - accuracy: 1.0000

Epoch 511/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0176 - accuracy: 1.0000

Epoch 512/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0175 - accuracy: 1.0000

Epoch 513/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0174 - accuracy: 1.0000

Epoch 514/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0172 - accuracy: 1.0000

Epoch 515/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0171 - accuracy: 1.0000

Epoch 516/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0170 - accuracy: 1.0000

Epoch 517/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0169 - accuracy: 1.0000

Epoch 518/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0168 - accuracy: 1.0000

Epoch 519/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0167 - accuracy: 1.0000

Epoch 520/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0166 - accuracy: 1.0000

Epoch 521/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0165 - accuracy: 1.0000

Epoch 522/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0164 - accuracy: 1.0000

Epoch 523/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0163 - accuracy: 1.0000

Epoch 524/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0161 - accuracy: 1.0000

Epoch 525/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0160 - accuracy: 1.0000

Epoch 526/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0160 - accuracy: 1.0000

Epoch 527/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0158 - accuracy: 1.0000

Epoch 528/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0158 - accuracy: 1.0000

Epoch 529/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0156 - accuracy: 1.0000

Epoch 530/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0157 - accuracy: 1.0000

Epoch 531/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0155 - accuracy: 1.0000

Epoch 532/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0154 - accuracy: 1.0000

Epoch 533/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0153 - accuracy: 1.0000

Epoch 534/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0151 - accuracy: 1.0000

Epoch 535/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0150 - accuracy: 1.0000

Epoch 536/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0149 - accuracy: 1.0000

Epoch 537/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0149 - accuracy: 1.0000

Epoch 538/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0147 - accuracy: 1.0000

Epoch 539/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0147 - accuracy: 1.0000

Epoch 540/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0146 - accuracy: 1.0000

Epoch 541/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0145 - accuracy: 1.0000

Epoch 542/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0144 - accuracy: 1.0000

Epoch 543/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0143 - accuracy: 1.0000

Epoch 544/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0142 - accuracy: 1.0000

Epoch 545/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0141 - accuracy: 1.0000

Epoch 546/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0140 - accuracy: 1.0000

Epoch 547/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0139 - accuracy: 1.0000

Epoch 548/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0138 - accuracy: 1.0000

Epoch 549/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0138 - accuracy: 1.0000

Epoch 550/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0137 - accuracy: 1.0000

Epoch 551/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0135 - accuracy: 1.0000

Epoch 552/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0135 - accuracy: 1.0000

Epoch 553/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0134 - accuracy: 1.0000

Epoch 554/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0133 - accuracy: 1.0000

Epoch 555/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0132 - accuracy: 1.0000

Epoch 556/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0132 - accuracy: 1.0000

Epoch 557/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0131 - accuracy: 1.0000

Epoch 558/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0130 - accuracy: 1.0000

Epoch 559/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0129 - accuracy: 1.0000

Epoch 560/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0128 - accuracy: 1.0000

Epoch 561/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0128 - accuracy: 1.0000

Epoch 562/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0126 - accuracy: 1.0000

Epoch 563/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0126 - accuracy: 1.0000

Epoch 564/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0125 - accuracy: 1.0000

Epoch 565/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0124 - accuracy: 1.0000

Epoch 566/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0123 - accuracy: 1.0000

Epoch 567/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0122 - accuracy: 1.0000

Epoch 568/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0122 - accuracy: 1.0000

Epoch 569/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0121 - accuracy: 1.0000

Epoch 570/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0120 - accuracy: 1.0000

Epoch 571/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0119 - accuracy: 1.0000

Epoch 572/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0119 - accuracy: 1.0000

Epoch 573/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0118 - accuracy: 1.0000

Epoch 574/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0117 - accuracy: 1.0000

Epoch 575/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0116 - accuracy: 1.0000

Epoch 576/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0116 - accuracy: 1.0000

Epoch 577/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0115 - accuracy: 1.0000

Epoch 578/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0114 - accuracy: 1.0000

Epoch 579/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0114 - accuracy: 1.0000

Epoch 580/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0112 - accuracy: 1.0000

Epoch 581/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0112 - accuracy: 1.0000

Epoch 582/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0111 - accuracy: 1.0000

Epoch 583/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0110 - accuracy: 1.0000

Epoch 584/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0110 - accuracy: 1.0000

Epoch 585/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0109 - accuracy: 1.0000

Epoch 586/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0108 - accuracy: 1.0000

Epoch 587/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0108 - accuracy: 1.0000

Epoch 588/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0108 - accuracy: 1.0000

Epoch 589/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0106 - accuracy: 1.0000

Epoch 590/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0106 - accuracy: 1.0000

Epoch 591/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0105 - accuracy: 1.0000

Epoch 592/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0104 - accuracy: 1.0000

Epoch 593/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0104 - accuracy: 1.0000

Epoch 594/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0103 - accuracy: 1.0000

Epoch 595/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0102 - accuracy: 1.0000

Epoch 596/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0102 - accuracy: 1.0000

Epoch 597/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0101 - accuracy: 1.0000

Epoch 598/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0100 - accuracy: 1.0000

Epoch 599/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0100 - accuracy: 1.0000

Epoch 600/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0099 - accuracy: 1.0000

Epoch 601/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0099 - accuracy: 1.0000

Epoch 602/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0098 - accuracy: 1.0000

Epoch 603/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0097 - accuracy: 1.0000

Epoch 604/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0097 - accuracy: 1.0000

Epoch 605/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0096 - accuracy: 1.0000

Epoch 606/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0096 - accuracy: 1.0000

Epoch 607/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0095 - accuracy: 1.0000

Epoch 608/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0095 - accuracy: 1.0000

Epoch 609/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0094 - accuracy: 1.0000

Epoch 610/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0093 - accuracy: 1.0000

Epoch 611/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0093 - accuracy: 1.0000

Epoch 612/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0092 - accuracy: 1.0000

Epoch 613/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0092 - accuracy: 1.0000

Epoch 614/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0091 - accuracy: 1.0000

Epoch 615/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0091 - accuracy: 1.0000

Epoch 616/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0090 - accuracy: 1.0000

Epoch 617/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0089 - accuracy: 1.0000

Epoch 618/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0089 - accuracy: 1.0000

Epoch 619/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0088 - accuracy: 1.0000

Epoch 620/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0088 - accuracy: 1.0000

Epoch 621/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0087 - accuracy: 1.0000

Epoch 622/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0087 - accuracy: 1.0000

Epoch 623/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0086 - accuracy: 1.0000

Epoch 624/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0085 - accuracy: 1.0000

Epoch 625/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0085 - accuracy: 1.0000

Epoch 626/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0085 - accuracy: 1.0000

Epoch 627/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0084 - accuracy: 1.0000

Epoch 628/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0084 - accuracy: 1.0000

Epoch 629/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0083 - accuracy: 1.0000

Epoch 630/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0083 - accuracy: 1.0000

Epoch 631/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0082 - accuracy: 1.0000

Epoch 632/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0081 - accuracy: 1.0000

Epoch 633/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0081 - accuracy: 1.0000

Epoch 634/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0080 - accuracy: 1.0000

Epoch 635/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0080 - accuracy: 1.0000

Epoch 636/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0079 - accuracy: 1.0000

Epoch 637/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0079 - accuracy: 1.0000

Epoch 638/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0078 - accuracy: 1.0000

Epoch 639/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0078 - accuracy: 1.0000

Epoch 640/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0077 - accuracy: 1.0000

Epoch 641/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0077 - accuracy: 1.0000

Epoch 642/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0076 - accuracy: 1.0000

Epoch 643/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0076 - accuracy: 1.0000

Epoch 644/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0075 - accuracy: 1.0000

Epoch 645/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0075 - accuracy: 1.0000

Epoch 646/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0074 - accuracy: 1.0000

Epoch 647/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0074 - accuracy: 1.0000

Epoch 648/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0074 - accuracy: 1.0000

Epoch 649/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0073 - accuracy: 1.0000

Epoch 650/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0073 - accuracy: 1.0000

Epoch 651/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0072 - accuracy: 1.0000

Epoch 652/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0072 - accuracy: 1.0000

Epoch 653/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0071 - accuracy: 1.0000

Epoch 654/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0071 - accuracy: 1.0000

Epoch 655/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0070 - accuracy: 1.0000

Epoch 656/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0070 - accuracy: 1.0000

Epoch 657/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0070 - accuracy: 1.0000

Epoch 658/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0069 - accuracy: 1.0000

Epoch 659/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0069 - accuracy: 1.0000

Epoch 660/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0068 - accuracy: 1.0000

Epoch 661/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0068 - accuracy: 1.0000

Epoch 662/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0068 - accuracy: 1.0000

Epoch 663/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0067 - accuracy: 1.0000

Epoch 664/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0067 - accuracy: 1.0000

Epoch 665/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0066 - accuracy: 1.0000

Epoch 666/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0066 - accuracy: 1.0000

Epoch 667/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0066 - accuracy: 1.0000

Epoch 668/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0065 - accuracy: 1.0000

Epoch 669/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0065 - accuracy: 1.0000

Epoch 670/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0065 - accuracy: 1.0000

Epoch 671/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0064 - accuracy: 1.0000

Epoch 672/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0064 - accuracy: 1.0000

Epoch 673/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0063 - accuracy: 1.0000

Epoch 674/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0063 - accuracy: 1.0000

Epoch 675/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0063 - accuracy: 1.0000

Epoch 676/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0062 - accuracy: 1.0000

Epoch 677/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0062 - accuracy: 1.0000

Epoch 678/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0062 - accuracy: 1.0000

Epoch 679/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0061 - accuracy: 1.0000

Epoch 680/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0061 - accuracy: 1.0000

Epoch 681/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0061 - accuracy: 1.0000

Epoch 682/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0060 - accuracy: 1.0000

Epoch 683/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0060 - accuracy: 1.0000

Epoch 684/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0060 - accuracy: 1.0000

Epoch 685/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0059 - accuracy: 1.0000

Epoch 686/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0059 - accuracy: 1.0000

Epoch 687/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0058 - accuracy: 1.0000

Epoch 688/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0058 - accuracy: 1.0000

Epoch 689/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0058 - accuracy: 1.0000

Epoch 690/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0057 - accuracy: 1.0000

Epoch 691/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0057 - accuracy: 1.0000

Epoch 692/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0057 - accuracy: 1.0000

Epoch 693/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0057 - accuracy: 1.0000

Epoch 694/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0056 - accuracy: 1.0000

Epoch 695/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0056 - accuracy: 1.0000

Epoch 696/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0055 - accuracy: 1.0000

Epoch 697/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0055 - accuracy: 1.0000

Epoch 698/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0055 - accuracy: 1.0000

Epoch 699/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0055 - accuracy: 1.0000

Epoch 700/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0054 - accuracy: 1.0000

Epoch 701/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0054 - accuracy: 1.0000

Epoch 702/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0054 - accuracy: 1.0000

Epoch 703/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0053 - accuracy: 1.0000

Epoch 704/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0053 - accuracy: 1.0000

Epoch 705/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0053 - accuracy: 1.0000

Epoch 706/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0052 - accuracy: 1.0000

Epoch 707/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0052 - accuracy: 1.0000

Epoch 708/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0052 - accuracy: 1.0000

Epoch 709/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0052 - accuracy: 1.0000

Epoch 710/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0051 - accuracy: 1.0000

Epoch 711/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0051 - accuracy: 1.0000

Epoch 712/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0051 - accuracy: 1.0000

Epoch 713/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0050 - accuracy: 1.0000

Epoch 714/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0050 - accuracy: 1.0000

Epoch 715/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0050 - accuracy: 1.0000

Epoch 716/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0049 - accuracy: 1.0000

Epoch 717/1000

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Epoch 718/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0049 - accuracy: 1.0000

Epoch 719/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0049 - accuracy: 1.0000

Epoch 720/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0048 - accuracy: 1.0000

Epoch 721/1000

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Epoch 722/1000

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Epoch 723/1000

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Epoch 724/1000

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Epoch 725/1000

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Epoch 726/1000

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Epoch 727/1000

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Epoch 728/1000

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Epoch 729/1000

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Epoch 730/1000

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Epoch 731/1000

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Epoch 732/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0045 - accuracy: 1.0000

Epoch 733/1000

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Epoch 734/1000

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Epoch 735/1000

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Epoch 736/1000

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Epoch 737/1000

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Epoch 738/1000

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Epoch 739/1000

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Epoch 740/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0043 - accuracy: 1.0000

Epoch 741/1000

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Epoch 742/1000

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Epoch 743/1000

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Epoch 744/1000

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Epoch 745/1000

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Epoch 746/1000

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Epoch 747/1000

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Epoch 748/1000

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Epoch 749/1000

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Epoch 750/1000

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Epoch 751/1000

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Epoch 752/1000

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Epoch 753/1000

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Epoch 754/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0040 - accuracy: 1.0000

Epoch 755/1000

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Epoch 756/1000

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Epoch 757/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0039 - accuracy: 1.0000

Epoch 758/1000

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Epoch 759/1000

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Epoch 760/1000

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Epoch 761/1000

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Epoch 762/1000

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Epoch 763/1000

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Epoch 764/1000

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Epoch 765/1000

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Epoch 766/1000

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Epoch 767/1000

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Epoch 768/1000

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Epoch 769/1000

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Epoch 770/1000

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Epoch 771/1000

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Epoch 772/1000

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Epoch 773/1000

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Epoch 774/1000

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Epoch 775/1000

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Epoch 776/1000

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Epoch 777/1000

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Epoch 778/1000

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Epoch 779/1000

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Epoch 780/1000

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Epoch 781/1000

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Epoch 782/1000

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Epoch 783/1000

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Epoch 784/1000

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Epoch 785/1000

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Epoch 786/1000

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Epoch 787/1000

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Epoch 788/1000

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Epoch 789/1000

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Epoch 790/1000

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Epoch 797/1000

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Epoch 798/1000

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Epoch 799/1000

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Epoch 800/1000

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Epoch 801/1000

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Epoch 802/1000

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Epoch 803/1000

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Epoch 804/1000

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Epoch 805/1000

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Epoch 806/1000

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Epoch 807/1000

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Epoch 810/1000

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Epoch 814/1000

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Epoch 818/1000

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Epoch 819/1000

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Epoch 820/1000

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Epoch 821/1000

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Epoch 841/1000

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Epoch 849/1000

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Epoch 850/1000

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Epoch 851/1000

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Epoch 881/1000

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Epoch 883/1000

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Epoch 884/1000

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Epoch 886/1000

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Epoch 887/1000

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Epoch 888/1000

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Epoch 889/1000

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Epoch 899/1000

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Epoch 900/1000

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Epoch 901/1000

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Epoch 902/1000

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Epoch 903/1000

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Epoch 904/1000

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Epoch 905/1000

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Epoch 906/1000

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Epoch 907/1000

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Epoch 909/1000

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Epoch 910/1000

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Epoch 911/1000

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Epoch 912/1000

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Epoch 913/1000

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Epoch 914/1000

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Epoch 915/1000

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Epoch 916/1000

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Epoch 917/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0017 - accuracy: 1.0000

Epoch 918/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0017 - accuracy: 1.0000

Epoch 919/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0017 - accuracy: 1.0000

Epoch 920/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0017 - accuracy: 1.0000

Epoch 921/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0017 - accuracy: 1.0000

Epoch 922/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0016 - accuracy: 1.0000

Epoch 923/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0016 - accuracy: 1.0000

Epoch 924/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0016 - accuracy: 1.0000

Epoch 925/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0016 - accuracy: 1.0000

Epoch 926/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0016 - accuracy: 1.0000

Epoch 927/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0016 - accuracy: 1.0000

Epoch 928/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0016 - accuracy: 1.0000

Epoch 929/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0016 - accuracy: 1.0000

Epoch 930/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0016 - accuracy: 1.0000

Epoch 931/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0016 - accuracy: 1.0000

Epoch 932/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0016 - accuracy: 1.0000

Epoch 933/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0016 - accuracy: 1.0000

Epoch 934/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0015 - accuracy: 1.0000

Epoch 935/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0015 - accuracy: 1.0000

Epoch 936/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0015 - accuracy: 1.0000

Epoch 937/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0015 - accuracy: 1.0000

Epoch 938/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0015 - accuracy: 1.0000

Epoch 939/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0015 - accuracy: 1.0000

Epoch 940/1000

8/8 [==============================] - 0s 5ms/step - loss: 0.0015 - accuracy: 1.0000

Epoch 941/1000

8/8 [==============================] - 0s 4ms/step - loss: 0.0015 - accuracy: 1.0000

Epoch 942/1000

8/8 [==============================] - 0s 4ms/step - loss: 0.0015 - accuracy: 1.0000

Epoch 943/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0015 - accuracy: 1.0000

Epoch 944/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0015 - accuracy: 1.0000

Epoch 945/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0015 - accuracy: 1.0000

Epoch 946/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0015 - accuracy: 1.0000

Epoch 947/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0014 - accuracy: 1.0000

Epoch 948/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0014 - accuracy: 1.0000

Epoch 949/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0014 - accuracy: 1.0000

Epoch 950/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0014 - accuracy: 1.0000

Epoch 951/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0014 - accuracy: 1.0000

Epoch 952/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0014 - accuracy: 1.0000

Epoch 953/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0014 - accuracy: 1.0000

Epoch 954/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0014 - accuracy: 1.0000

Epoch 955/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0014 - accuracy: 1.0000

Epoch 956/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0014 - accuracy: 1.0000

Epoch 957/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0014 - accuracy: 1.0000

Epoch 958/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0014 - accuracy: 1.0000

Epoch 959/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0014 - accuracy: 1.0000

Epoch 960/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0014 - accuracy: 1.0000

Epoch 961/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0014 - accuracy: 1.0000

Epoch 962/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0013 - accuracy: 1.0000

Epoch 963/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0013 - accuracy: 1.0000

Epoch 964/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0013 - accuracy: 1.0000

Epoch 965/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0013 - accuracy: 1.0000

Epoch 966/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0013 - accuracy: 1.0000

Epoch 967/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0013 - accuracy: 1.0000

Epoch 968/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0013 - accuracy: 1.0000

Epoch 969/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0013 - accuracy: 1.0000

Epoch 970/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0013 - accuracy: 1.0000

Epoch 971/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0013 - accuracy: 1.0000

Epoch 972/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0013 - accuracy: 1.0000

Epoch 973/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0013 - accuracy: 1.0000

Epoch 974/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0013 - accuracy: 1.0000

Epoch 975/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0013 - accuracy: 1.0000

Epoch 976/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0013 - accuracy: 1.0000

Epoch 977/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0013 - accuracy: 1.0000

Epoch 978/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0012 - accuracy: 1.0000

Epoch 979/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0012 - accuracy: 1.0000

Epoch 980/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0012 - accuracy: 1.0000

Epoch 981/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0012 - accuracy: 1.0000

Epoch 982/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0012 - accuracy: 1.0000

Epoch 983/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0012 - accuracy: 1.0000

Epoch 984/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0012 - accuracy: 1.0000

Epoch 985/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0012 - accuracy: 1.0000

Epoch 986/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0012 - accuracy: 1.0000

Epoch 987/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0012 - accuracy: 1.0000

Epoch 988/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0012 - accuracy: 1.0000

Epoch 989/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0012 - accuracy: 1.0000

Epoch 990/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0012 - accuracy: 1.0000

Epoch 991/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0012 - accuracy: 1.0000

Epoch 992/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0012 - accuracy: 1.0000

Epoch 993/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0012 - accuracy: 1.0000

Epoch 994/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0012 - accuracy: 1.0000

Epoch 995/1000

8/8 [==============================] - 0s 3ms/step - loss: 0.0011 - accuracy: 1.0000

Epoch 996/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0011 - accuracy: 1.0000

Epoch 997/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0011 - accuracy: 1.0000

Epoch 998/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0011 - accuracy: 1.0000

Epoch 999/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0011 - accuracy: 1.0000

Epoch 1000/1000

8/8 [==============================] - 0s 2ms/step - loss: 0.0011 - accuracy: 1.0000

**Portugal**

Epoch 1/1000

13/13 [==============================] - 1s 2ms/step - loss: 1.1335 - accuracy: 0.1465

Epoch 2/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.9906 - accuracy: 0.1465

Epoch 3/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.8684 - accuracy: 0.1542

Epoch 4/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.7615 - accuracy: 0.2982

Epoch 5/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.6731 - accuracy: 0.5810

Epoch 6/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.6003 - accuracy: 0.7506

Epoch 7/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.5416 - accuracy: 0.8278

Epoch 8/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.4923 - accuracy: 0.8792

Epoch 9/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.4541 - accuracy: 0.8920

Epoch 10/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.4221 - accuracy: 0.8997

Epoch 11/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.3962 - accuracy: 0.9023

Epoch 12/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.3749 - accuracy: 0.9023

Epoch 13/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.3562 - accuracy: 0.8972

Epoch 14/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.3414 - accuracy: 0.8946

Epoch 15/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.3283 - accuracy: 0.8946

Epoch 16/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.3177 - accuracy: 0.8946

Epoch 17/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.3086 - accuracy: 0.8895

Epoch 18/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.3003 - accuracy: 0.8843

Epoch 19/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.2933 - accuracy: 0.8843

Epoch 20/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.2868 - accuracy: 0.8843

Epoch 21/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.2811 - accuracy: 0.8869

Epoch 22/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.2756 - accuracy: 0.8869

Epoch 23/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.2706 - accuracy: 0.8895

Epoch 24/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.2661 - accuracy: 0.8895

Epoch 25/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.2618 - accuracy: 0.8920

Epoch 26/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.2578 - accuracy: 0.8920

Epoch 27/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.2541 - accuracy: 0.8946

Epoch 28/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.2509 - accuracy: 0.8946

Epoch 29/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.2475 - accuracy: 0.8972

Epoch 30/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.2445 - accuracy: 0.9023

Epoch 31/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.2414 - accuracy: 0.9023

Epoch 32/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.2387 - accuracy: 0.9049

Epoch 33/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.2360 - accuracy: 0.9049

Epoch 34/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.2333 - accuracy: 0.9049

Epoch 35/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.2307 - accuracy: 0.9049

Epoch 36/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.2282 - accuracy: 0.9075

Epoch 37/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.2258 - accuracy: 0.9075

Epoch 38/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.2236 - accuracy: 0.9126

Epoch 39/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.2214 - accuracy: 0.9126

Epoch 40/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.2194 - accuracy: 0.9126

Epoch 41/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.2171 - accuracy: 0.9152

Epoch 42/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.2152 - accuracy: 0.9152

Epoch 43/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.2133 - accuracy: 0.9177

Epoch 44/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.2112 - accuracy: 0.9177

Epoch 45/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.2097 - accuracy: 0.9177

Epoch 46/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.2077 - accuracy: 0.9177

Epoch 47/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.2059 - accuracy: 0.9203

Epoch 48/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.2043 - accuracy: 0.9203

Epoch 49/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.2028 - accuracy: 0.9177

Epoch 50/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.2008 - accuracy: 0.9280

Epoch 51/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1991 - accuracy: 0.9280

Epoch 52/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1979 - accuracy: 0.9280

Epoch 53/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1962 - accuracy: 0.9280

Epoch 54/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1951 - accuracy: 0.9280

Epoch 55/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1931 - accuracy: 0.9306

Epoch 56/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1919 - accuracy: 0.9306

Epoch 57/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1904 - accuracy: 0.9306

Epoch 58/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1892 - accuracy: 0.9306

Epoch 59/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1876 - accuracy: 0.9383

Epoch 60/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1862 - accuracy: 0.9357

Epoch 61/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1848 - accuracy: 0.9383

Epoch 62/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1836 - accuracy: 0.9383

Epoch 63/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1824 - accuracy: 0.9383

Epoch 64/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1812 - accuracy: 0.9383

Epoch 65/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1798 - accuracy: 0.9383

Epoch 66/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1787 - accuracy: 0.9357

Epoch 67/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1777 - accuracy: 0.9357

Epoch 68/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1765 - accuracy: 0.9357

Epoch 69/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1752 - accuracy: 0.9383

Epoch 70/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1743 - accuracy: 0.9383

Epoch 71/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1731 - accuracy: 0.9383

Epoch 72/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1720 - accuracy: 0.9409

Epoch 73/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1708 - accuracy: 0.9409

Epoch 74/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1699 - accuracy: 0.9434

Epoch 75/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1687 - accuracy: 0.9460

Epoch 76/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1679 - accuracy: 0.9460

Epoch 77/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1665 - accuracy: 0.9512

Epoch 78/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1656 - accuracy: 0.9512

Epoch 79/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1647 - accuracy: 0.9512

Epoch 80/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1633 - accuracy: 0.9512

Epoch 81/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1625 - accuracy: 0.9512

Epoch 82/1000

13/13 [==============================] - 0s 3ms/step - loss: 0.1616 - accuracy: 0.9460

Epoch 83/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1606 - accuracy: 0.9460

Epoch 84/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1596 - accuracy: 0.9460

Epoch 85/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1588 - accuracy: 0.9434

Epoch 86/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1580 - accuracy: 0.9460

Epoch 87/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1578 - accuracy: 0.9460

Epoch 88/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1561 - accuracy: 0.9486

Epoch 89/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1552 - accuracy: 0.9512

Epoch 90/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1544 - accuracy: 0.9512

Epoch 91/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1535 - accuracy: 0.9512

Epoch 92/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1525 - accuracy: 0.9486

Epoch 93/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1517 - accuracy: 0.9486

Epoch 94/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1509 - accuracy: 0.9512

Epoch 95/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1500 - accuracy: 0.9486

Epoch 96/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1493 - accuracy: 0.9460

Epoch 97/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1488 - accuracy: 0.9486

Epoch 98/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1477 - accuracy: 0.9512

Epoch 99/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1468 - accuracy: 0.9537

Epoch 100/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1461 - accuracy: 0.9563

Epoch 101/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1452 - accuracy: 0.9537

Epoch 102/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1445 - accuracy: 0.9537

Epoch 103/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1438 - accuracy: 0.9537

Epoch 104/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1428 - accuracy: 0.9589

Epoch 105/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1423 - accuracy: 0.9589

Epoch 106/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1413 - accuracy: 0.9614

Epoch 107/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1406 - accuracy: 0.9563

Epoch 108/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1403 - accuracy: 0.9589

Epoch 109/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1392 - accuracy: 0.9563

Epoch 110/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1388 - accuracy: 0.9563

Epoch 111/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1387 - accuracy: 0.9614

Epoch 112/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1372 - accuracy: 0.9589

Epoch 113/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1365 - accuracy: 0.9614

Epoch 114/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1358 - accuracy: 0.9614

Epoch 115/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1349 - accuracy: 0.9589

Epoch 116/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1345 - accuracy: 0.9563

Epoch 117/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1337 - accuracy: 0.9563

Epoch 118/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1332 - accuracy: 0.9563

Epoch 119/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1328 - accuracy: 0.9563

Epoch 120/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1318 - accuracy: 0.9589

Epoch 121/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1313 - accuracy: 0.9589

Epoch 122/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1306 - accuracy: 0.9614

Epoch 123/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1300 - accuracy: 0.9589

Epoch 124/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1296 - accuracy: 0.9614

Epoch 125/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1287 - accuracy: 0.9589

Epoch 126/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1281 - accuracy: 0.9589

Epoch 127/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1278 - accuracy: 0.9614

Epoch 128/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1274 - accuracy: 0.9614

Epoch 129/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1266 - accuracy: 0.9614

Epoch 130/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1261 - accuracy: 0.9614

Epoch 131/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1253 - accuracy: 0.9614

Epoch 132/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1245 - accuracy: 0.9614

Epoch 133/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1241 - accuracy: 0.9589

Epoch 134/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1232 - accuracy: 0.9589

Epoch 135/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1228 - accuracy: 0.9589

Epoch 136/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1222 - accuracy: 0.9589

Epoch 137/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1214 - accuracy: 0.9614

Epoch 138/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1211 - accuracy: 0.9589

Epoch 139/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1208 - accuracy: 0.9614

Epoch 140/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1201 - accuracy: 0.9640

Epoch 141/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1192 - accuracy: 0.9640

Epoch 142/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1188 - accuracy: 0.9614

Epoch 143/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1183 - accuracy: 0.9614

Epoch 144/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1180 - accuracy: 0.9614

Epoch 145/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1168 - accuracy: 0.9614

Epoch 146/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1166 - accuracy: 0.9614

Epoch 147/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1161 - accuracy: 0.9589

Epoch 148/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1156 - accuracy: 0.9589

Epoch 149/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1151 - accuracy: 0.9589

Epoch 150/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1147 - accuracy: 0.9589

Epoch 151/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1140 - accuracy: 0.9589

Epoch 152/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1134 - accuracy: 0.9589

Epoch 153/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1129 - accuracy: 0.9614

Epoch 154/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1126 - accuracy: 0.9614

Epoch 155/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1118 - accuracy: 0.9614

Epoch 156/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1114 - accuracy: 0.9614

Epoch 157/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1109 - accuracy: 0.9614

Epoch 158/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1106 - accuracy: 0.9614

Epoch 159/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1098 - accuracy: 0.9614

Epoch 160/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1094 - accuracy: 0.9614

Epoch 161/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1087 - accuracy: 0.9614

Epoch 162/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1085 - accuracy: 0.9614

Epoch 163/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1077 - accuracy: 0.9614

Epoch 164/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1073 - accuracy: 0.9614

Epoch 165/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1068 - accuracy: 0.9640

Epoch 166/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1064 - accuracy: 0.9614

Epoch 167/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1060 - accuracy: 0.9640

Epoch 168/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1055 - accuracy: 0.9640

Epoch 169/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1049 - accuracy: 0.9666

Epoch 170/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1045 - accuracy: 0.9640

Epoch 171/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1038 - accuracy: 0.9640

Epoch 172/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1035 - accuracy: 0.9614

Epoch 173/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1028 - accuracy: 0.9614

Epoch 174/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1026 - accuracy: 0.9614

Epoch 175/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1021 - accuracy: 0.9640

Epoch 176/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1017 - accuracy: 0.9640

Epoch 177/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1013 - accuracy: 0.9640

Epoch 178/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1008 - accuracy: 0.9640

Epoch 179/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.1001 - accuracy: 0.9640

Epoch 180/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0997 - accuracy: 0.9666

Epoch 181/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0998 - accuracy: 0.9692

Epoch 182/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0989 - accuracy: 0.9692

Epoch 183/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0986 - accuracy: 0.9666

Epoch 184/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0979 - accuracy: 0.9692

Epoch 185/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0977 - accuracy: 0.9692

Epoch 186/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0972 - accuracy: 0.9692

Epoch 187/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0964 - accuracy: 0.9692

Epoch 188/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0961 - accuracy: 0.9692

Epoch 189/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0956 - accuracy: 0.9692

Epoch 190/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0955 - accuracy: 0.9666

Epoch 191/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0945 - accuracy: 0.9640

Epoch 192/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0942 - accuracy: 0.9666

Epoch 193/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0937 - accuracy: 0.9692

Epoch 194/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0932 - accuracy: 0.9640

Epoch 195/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0928 - accuracy: 0.9692

Epoch 196/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0928 - accuracy: 0.9666

Epoch 197/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0920 - accuracy: 0.9666

Epoch 198/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0911 - accuracy: 0.9717

Epoch 199/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0912 - accuracy: 0.9692

Epoch 200/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0911 - accuracy: 0.9692

Epoch 201/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0906 - accuracy: 0.9692

Epoch 202/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0900 - accuracy: 0.9666

Epoch 203/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0893 - accuracy: 0.9666

Epoch 204/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0890 - accuracy: 0.9717

Epoch 205/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0886 - accuracy: 0.9717

Epoch 206/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0881 - accuracy: 0.9743

Epoch 207/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0876 - accuracy: 0.9743

Epoch 208/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0870 - accuracy: 0.9743

Epoch 209/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0867 - accuracy: 0.9743

Epoch 210/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0859 - accuracy: 0.9743

Epoch 211/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0858 - accuracy: 0.9717

Epoch 212/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0854 - accuracy: 0.9717

Epoch 213/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0849 - accuracy: 0.9717

Epoch 214/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0844 - accuracy: 0.9717

Epoch 215/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0841 - accuracy: 0.9717

Epoch 216/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0836 - accuracy: 0.9717

Epoch 217/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0831 - accuracy: 0.9717

Epoch 218/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0824 - accuracy: 0.9717

Epoch 219/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0823 - accuracy: 0.9717

Epoch 220/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0820 - accuracy: 0.9769

Epoch 221/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0814 - accuracy: 0.9769

Epoch 222/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0811 - accuracy: 0.9717

Epoch 223/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0806 - accuracy: 0.9743

Epoch 224/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0800 - accuracy: 0.9743

Epoch 225/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0795 - accuracy: 0.9743

Epoch 226/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0793 - accuracy: 0.9743

Epoch 227/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0791 - accuracy: 0.9743

Epoch 228/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0789 - accuracy: 0.9794

Epoch 229/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0783 - accuracy: 0.9794

Epoch 230/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0779 - accuracy: 0.9794

Epoch 231/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0772 - accuracy: 0.9820

Epoch 232/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0769 - accuracy: 0.9794

Epoch 233/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0764 - accuracy: 0.9794

Epoch 234/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0754 - accuracy: 0.9794

Epoch 235/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0756 - accuracy: 0.9794

Epoch 236/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0751 - accuracy: 0.9794

Epoch 237/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0747 - accuracy: 0.9794

Epoch 238/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0744 - accuracy: 0.9794

Epoch 239/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0738 - accuracy: 0.9794

Epoch 240/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0734 - accuracy: 0.9820

Epoch 241/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0729 - accuracy: 0.9794

Epoch 242/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0724 - accuracy: 0.9794

Epoch 243/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0720 - accuracy: 0.9820

Epoch 244/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0718 - accuracy: 0.9820

Epoch 245/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0711 - accuracy: 0.9820

Epoch 246/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0709 - accuracy: 0.9820

Epoch 247/1000

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Epoch 248/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0700 - accuracy: 0.9820

Epoch 249/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0695 - accuracy: 0.9820

Epoch 250/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0690 - accuracy: 0.9820

Epoch 251/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0686 - accuracy: 0.9794

Epoch 252/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0684 - accuracy: 0.9794

Epoch 253/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0678 - accuracy: 0.9794

Epoch 254/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0676 - accuracy: 0.9820

Epoch 255/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0670 - accuracy: 0.9820

Epoch 256/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0667 - accuracy: 0.9820

Epoch 257/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0662 - accuracy: 0.9820

Epoch 258/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0660 - accuracy: 0.9846

Epoch 259/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0655 - accuracy: 0.9820

Epoch 260/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0652 - accuracy: 0.9846

Epoch 261/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0647 - accuracy: 0.9871

Epoch 262/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0642 - accuracy: 0.9820

Epoch 263/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0648 - accuracy: 0.9794

Epoch 264/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0639 - accuracy: 0.9820

Epoch 265/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0629 - accuracy: 0.9820

Epoch 266/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0629 - accuracy: 0.9846

Epoch 267/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0624 - accuracy: 0.9871

Epoch 268/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0619 - accuracy: 0.9871

Epoch 269/1000

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Epoch 270/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0613 - accuracy: 0.9871

Epoch 271/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0605 - accuracy: 0.9871

Epoch 272/1000

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Epoch 273/1000

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Epoch 274/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0596 - accuracy: 0.9871

Epoch 275/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0594 - accuracy: 0.9871

Epoch 276/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0591 - accuracy: 0.9871

Epoch 277/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0587 - accuracy: 0.9871

Epoch 278/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0585 - accuracy: 0.9871

Epoch 279/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0576 - accuracy: 0.9897

Epoch 280/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0578 - accuracy: 0.9897

Epoch 281/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0572 - accuracy: 0.9897

Epoch 282/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0568 - accuracy: 0.9897

Epoch 283/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0567 - accuracy: 0.9923

Epoch 284/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0561 - accuracy: 0.9923

Epoch 285/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0558 - accuracy: 0.9949

Epoch 286/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0551 - accuracy: 0.9949

Epoch 287/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0548 - accuracy: 0.9949

Epoch 288/1000

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Epoch 289/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0540 - accuracy: 0.9949

Epoch 290/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0535 - accuracy: 0.9949

Epoch 291/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0533 - accuracy: 0.9949

Epoch 292/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0529 - accuracy: 0.9949

Epoch 293/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0526 - accuracy: 0.9949

Epoch 294/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0522 - accuracy: 0.9949

Epoch 295/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0520 - accuracy: 0.9949

Epoch 296/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0516 - accuracy: 0.9949

Epoch 297/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0512 - accuracy: 0.9897

Epoch 298/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0510 - accuracy: 0.9923

Epoch 299/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0506 - accuracy: 0.9923

Epoch 300/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0503 - accuracy: 0.9949

Epoch 301/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0499 - accuracy: 0.9949

Epoch 302/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0496 - accuracy: 0.9949

Epoch 303/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0493 - accuracy: 0.9949

Epoch 304/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0489 - accuracy: 0.9949

Epoch 305/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0483 - accuracy: 0.9949

Epoch 306/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0486 - accuracy: 0.9923

Epoch 307/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0479 - accuracy: 0.9923

Epoch 308/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0477 - accuracy: 0.9949

Epoch 309/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0472 - accuracy: 0.9949

Epoch 310/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0468 - accuracy: 0.9949

Epoch 311/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0466 - accuracy: 0.9949

Epoch 312/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0462 - accuracy: 0.9949

Epoch 313/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0458 - accuracy: 0.9949

Epoch 314/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0455 - accuracy: 0.9949

Epoch 315/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0453 - accuracy: 0.9949

Epoch 316/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0448 - accuracy: 0.9949

Epoch 317/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0445 - accuracy: 0.9949

Epoch 318/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0442 - accuracy: 0.9949

Epoch 319/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0438 - accuracy: 0.9974

Epoch 320/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0439 - accuracy: 0.9974

Epoch 321/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0432 - accuracy: 0.9974

Epoch 322/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0429 - accuracy: 0.9974

Epoch 323/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0427 - accuracy: 0.9974

Epoch 324/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0424 - accuracy: 0.9974

Epoch 325/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0424 - accuracy: 0.9974

Epoch 326/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0422 - accuracy: 0.9974

Epoch 327/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0416 - accuracy: 0.9974

Epoch 328/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0412 - accuracy: 0.9974

Epoch 329/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0409 - accuracy: 0.9974

Epoch 330/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0409 - accuracy: 0.9974

Epoch 331/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0402 - accuracy: 0.9974

Epoch 332/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0398 - accuracy: 0.9974

Epoch 333/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0396 - accuracy: 0.9974

Epoch 334/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0392 - accuracy: 0.9974

Epoch 335/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0389 - accuracy: 0.9974

Epoch 336/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0386 - accuracy: 0.9974

Epoch 337/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0384 - accuracy: 0.9974

Epoch 338/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0380 - accuracy: 0.9974

Epoch 339/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0378 - accuracy: 0.9974

Epoch 340/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0375 - accuracy: 0.9974

Epoch 341/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0372 - accuracy: 0.9974

Epoch 342/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0368 - accuracy: 0.9974

Epoch 343/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0365 - accuracy: 0.9974

Epoch 344/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0364 - accuracy: 0.9974

Epoch 345/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0361 - accuracy: 0.9974

Epoch 346/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0358 - accuracy: 0.9974

Epoch 347/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0355 - accuracy: 0.9974

Epoch 348/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0354 - accuracy: 0.9974

Epoch 349/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0350 - accuracy: 0.9974

Epoch 350/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0346 - accuracy: 0.9974

Epoch 351/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0344 - accuracy: 0.9974

Epoch 352/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0342 - accuracy: 0.9974

Epoch 353/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0339 - accuracy: 0.9974

Epoch 354/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0337 - accuracy: 0.9974

Epoch 355/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0334 - accuracy: 0.9974

Epoch 356/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0331 - accuracy: 0.9974

Epoch 357/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0329 - accuracy: 0.9974

Epoch 358/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0326 - accuracy: 0.9974

Epoch 359/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0323 - accuracy: 0.9974

Epoch 360/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0322 - accuracy: 0.9974

Epoch 361/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0320 - accuracy: 0.9974

Epoch 362/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0316 - accuracy: 0.9974

Epoch 363/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0313 - accuracy: 0.9974

Epoch 364/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0312 - accuracy: 0.9974

Epoch 365/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0309 - accuracy: 0.9974

Epoch 366/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0307 - accuracy: 0.9974

Epoch 367/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0308 - accuracy: 0.9974

Epoch 368/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0303 - accuracy: 0.9974

Epoch 369/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0300 - accuracy: 0.9974

Epoch 370/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0296 - accuracy: 0.9974

Epoch 371/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0295 - accuracy: 0.9974

Epoch 372/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0292 - accuracy: 0.9974

Epoch 373/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0289 - accuracy: 0.9974

Epoch 374/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0288 - accuracy: 0.9974

Epoch 375/1000

13/13 [==============================] - 0s 3ms/step - loss: 0.0285 - accuracy: 0.9974

Epoch 376/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0282 - accuracy: 1.0000

Epoch 377/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0281 - accuracy: 1.0000

Epoch 378/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0278 - accuracy: 1.0000

Epoch 379/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0276 - accuracy: 1.0000

Epoch 380/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0274 - accuracy: 1.0000

Epoch 381/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0271 - accuracy: 1.0000

Epoch 382/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0269 - accuracy: 1.0000

Epoch 383/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0268 - accuracy: 1.0000

Epoch 384/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0265 - accuracy: 1.0000

Epoch 385/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0262 - accuracy: 1.0000

Epoch 386/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0261 - accuracy: 1.0000

Epoch 387/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0257 - accuracy: 1.0000

Epoch 388/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0256 - accuracy: 1.0000

Epoch 389/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0254 - accuracy: 1.0000

Epoch 390/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0252 - accuracy: 1.0000

Epoch 391/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0250 - accuracy: 1.0000

Epoch 392/1000

13/13 [==============================] - 0s 3ms/step - loss: 0.0247 - accuracy: 1.0000

Epoch 393/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0245 - accuracy: 1.0000

Epoch 394/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0244 - accuracy: 1.0000

Epoch 395/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0240 - accuracy: 1.0000

Epoch 396/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0240 - accuracy: 1.0000

Epoch 397/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0237 - accuracy: 1.0000

Epoch 398/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0235 - accuracy: 1.0000

Epoch 399/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0234 - accuracy: 1.0000

Epoch 400/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0232 - accuracy: 1.0000

Epoch 401/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0230 - accuracy: 1.0000

Epoch 402/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0228 - accuracy: 1.0000

Epoch 403/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0226 - accuracy: 1.0000

Epoch 404/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0225 - accuracy: 1.0000

Epoch 405/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0222 - accuracy: 1.0000

Epoch 406/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0221 - accuracy: 1.0000

Epoch 407/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0218 - accuracy: 1.0000

Epoch 408/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0216 - accuracy: 1.0000

Epoch 409/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0215 - accuracy: 1.0000

Epoch 410/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0213 - accuracy: 1.0000

Epoch 411/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0211 - accuracy: 1.0000

Epoch 412/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0209 - accuracy: 1.0000

Epoch 413/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0207 - accuracy: 1.0000

Epoch 414/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0205 - accuracy: 1.0000

Epoch 415/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0203 - accuracy: 1.0000

Epoch 416/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0201 - accuracy: 1.0000

Epoch 417/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0200 - accuracy: 1.0000

Epoch 418/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0198 - accuracy: 1.0000

Epoch 419/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0196 - accuracy: 1.0000

Epoch 420/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0195 - accuracy: 1.0000

Epoch 421/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0193 - accuracy: 1.0000

Epoch 422/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0191 - accuracy: 1.0000

Epoch 423/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0190 - accuracy: 1.0000

Epoch 424/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0190 - accuracy: 1.0000

Epoch 425/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0188 - accuracy: 1.0000

Epoch 426/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0185 - accuracy: 1.0000

Epoch 427/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0183 - accuracy: 1.0000

Epoch 428/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0182 - accuracy: 1.0000

Epoch 429/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0181 - accuracy: 1.0000

Epoch 430/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0179 - accuracy: 1.0000

Epoch 431/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0177 - accuracy: 1.0000

Epoch 432/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0176 - accuracy: 1.0000

Epoch 433/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0174 - accuracy: 1.0000

Epoch 434/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0173 - accuracy: 1.0000

Epoch 435/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0171 - accuracy: 1.0000

Epoch 436/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0169 - accuracy: 1.0000

Epoch 437/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0168 - accuracy: 1.0000

Epoch 438/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0167 - accuracy: 1.0000

Epoch 439/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0165 - accuracy: 1.0000

Epoch 440/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0164 - accuracy: 1.0000

Epoch 441/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0162 - accuracy: 1.0000

Epoch 442/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0161 - accuracy: 1.0000

Epoch 443/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0159 - accuracy: 1.0000

Epoch 444/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0158 - accuracy: 1.0000

Epoch 445/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0158 - accuracy: 1.0000

Epoch 446/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0156 - accuracy: 1.0000

Epoch 447/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0154 - accuracy: 1.0000

Epoch 448/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0153 - accuracy: 1.0000

Epoch 449/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0151 - accuracy: 1.0000

Epoch 450/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0150 - accuracy: 1.0000

Epoch 451/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0149 - accuracy: 1.0000

Epoch 452/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0148 - accuracy: 1.0000

Epoch 453/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0146 - accuracy: 1.0000

Epoch 454/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0149 - accuracy: 1.0000

Epoch 455/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0147 - accuracy: 1.0000

Epoch 456/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0144 - accuracy: 1.0000

Epoch 457/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0144 - accuracy: 1.0000

Epoch 458/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0142 - accuracy: 1.0000

Epoch 459/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0142 - accuracy: 1.0000

Epoch 460/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0139 - accuracy: 1.0000

Epoch 461/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0138 - accuracy: 1.0000

Epoch 462/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0136 - accuracy: 1.0000

Epoch 463/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0135 - accuracy: 1.0000

Epoch 464/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0133 - accuracy: 1.0000

Epoch 465/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0131 - accuracy: 1.0000

Epoch 466/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0130 - accuracy: 1.0000

Epoch 467/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0129 - accuracy: 1.0000

Epoch 468/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0128 - accuracy: 1.0000

Epoch 469/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0125 - accuracy: 1.0000

Epoch 470/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0126 - accuracy: 1.0000

Epoch 471/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0126 - accuracy: 1.0000

Epoch 472/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0124 - accuracy: 1.0000

Epoch 473/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0122 - accuracy: 1.0000

Epoch 474/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0122 - accuracy: 1.0000

Epoch 475/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0120 - accuracy: 1.0000

Epoch 476/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0119 - accuracy: 1.0000

Epoch 477/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0118 - accuracy: 1.0000

Epoch 478/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0117 - accuracy: 1.0000

Epoch 479/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0116 - accuracy: 1.0000

Epoch 480/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0115 - accuracy: 1.0000

Epoch 481/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0114 - accuracy: 1.0000

Epoch 482/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0113 - accuracy: 1.0000

Epoch 483/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0112 - accuracy: 1.0000

Epoch 484/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0111 - accuracy: 1.0000

Epoch 485/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0110 - accuracy: 1.0000

Epoch 486/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0110 - accuracy: 1.0000

Epoch 487/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0108 - accuracy: 1.0000

Epoch 488/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0107 - accuracy: 1.0000

Epoch 489/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0106 - accuracy: 1.0000

Epoch 490/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0106 - accuracy: 1.0000

Epoch 491/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0105 - accuracy: 1.0000

Epoch 492/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0104 - accuracy: 1.0000

Epoch 493/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0103 - accuracy: 1.0000

Epoch 494/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0102 - accuracy: 1.0000

Epoch 495/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0101 - accuracy: 1.0000

Epoch 496/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0100 - accuracy: 1.0000

Epoch 497/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0100 - accuracy: 1.0000

Epoch 498/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0099 - accuracy: 1.0000

Epoch 499/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0098 - accuracy: 1.0000

Epoch 500/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0097 - accuracy: 1.0000

Epoch 501/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0096 - accuracy: 1.0000

Epoch 502/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0095 - accuracy: 1.0000

Epoch 503/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0094 - accuracy: 1.0000

Epoch 504/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0094 - accuracy: 1.0000

Epoch 505/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0093 - accuracy: 1.0000

Epoch 506/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0092 - accuracy: 1.0000

Epoch 507/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0091 - accuracy: 1.0000

Epoch 508/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0090 - accuracy: 1.0000

Epoch 509/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0090 - accuracy: 1.0000

Epoch 510/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0089 - accuracy: 1.0000

Epoch 511/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0088 - accuracy: 1.0000

Epoch 512/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0088 - accuracy: 1.0000

Epoch 513/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0087 - accuracy: 1.0000

Epoch 514/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0086 - accuracy: 1.0000

Epoch 515/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0086 - accuracy: 1.0000

Epoch 516/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0084 - accuracy: 1.0000

Epoch 517/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0084 - accuracy: 1.0000

Epoch 518/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0083 - accuracy: 1.0000

Epoch 519/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0083 - accuracy: 1.0000

Epoch 520/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0082 - accuracy: 1.0000

Epoch 521/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0081 - accuracy: 1.0000

Epoch 522/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0080 - accuracy: 1.0000

Epoch 523/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0079 - accuracy: 1.0000

Epoch 524/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0079 - accuracy: 1.0000

Epoch 525/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0078 - accuracy: 1.0000

Epoch 526/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0078 - accuracy: 1.0000

Epoch 527/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0077 - accuracy: 1.0000

Epoch 528/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0076 - accuracy: 1.0000

Epoch 529/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0076 - accuracy: 1.0000

Epoch 530/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0075 - accuracy: 1.0000

Epoch 531/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0075 - accuracy: 1.0000

Epoch 532/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0074 - accuracy: 1.0000

Epoch 533/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0073 - accuracy: 1.0000

Epoch 534/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0073 - accuracy: 1.0000

Epoch 535/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0072 - accuracy: 1.0000

Epoch 536/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0071 - accuracy: 1.0000

Epoch 537/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0071 - accuracy: 1.0000

Epoch 538/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0070 - accuracy: 1.0000

Epoch 539/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0070 - accuracy: 1.0000

Epoch 540/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0069 - accuracy: 1.0000

Epoch 541/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0068 - accuracy: 1.0000

Epoch 542/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0068 - accuracy: 1.0000

Epoch 543/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0067 - accuracy: 1.0000

Epoch 544/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0067 - accuracy: 1.0000

Epoch 545/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0066 - accuracy: 1.0000

Epoch 546/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0065 - accuracy: 1.0000

Epoch 547/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0065 - accuracy: 1.0000

Epoch 548/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0064 - accuracy: 1.0000

Epoch 549/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0064 - accuracy: 1.0000

Epoch 550/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0063 - accuracy: 1.0000

Epoch 551/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0063 - accuracy: 1.0000

Epoch 552/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0062 - accuracy: 1.0000

Epoch 553/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0062 - accuracy: 1.0000

Epoch 554/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0061 - accuracy: 1.0000

Epoch 555/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0060 - accuracy: 1.0000

Epoch 556/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0060 - accuracy: 1.0000

Epoch 557/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0060 - accuracy: 1.0000

Epoch 558/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0059 - accuracy: 1.0000

Epoch 559/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0059 - accuracy: 1.0000

Epoch 560/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0058 - accuracy: 1.0000

Epoch 561/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0057 - accuracy: 1.0000

Epoch 562/1000

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Epoch 563/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0057 - accuracy: 1.0000

Epoch 564/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0056 - accuracy: 1.0000

Epoch 565/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0056 - accuracy: 1.0000

Epoch 566/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0055 - accuracy: 1.0000

Epoch 567/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0055 - accuracy: 1.0000

Epoch 568/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0054 - accuracy: 1.0000

Epoch 569/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0054 - accuracy: 1.0000

Epoch 570/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0053 - accuracy: 1.0000

Epoch 571/1000

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Epoch 572/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0053 - accuracy: 1.0000

Epoch 573/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0052 - accuracy: 1.0000

Epoch 574/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0052 - accuracy: 1.0000

Epoch 575/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0051 - accuracy: 1.0000

Epoch 576/1000

13/13 [==============================] - 0s 3ms/step - loss: 0.0051 - accuracy: 1.0000

Epoch 577/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0050 - accuracy: 1.0000

Epoch 578/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0050 - accuracy: 1.0000

Epoch 579/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0050 - accuracy: 1.0000

Epoch 580/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0050 - accuracy: 1.0000

Epoch 581/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0049 - accuracy: 1.0000

Epoch 582/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0049 - accuracy: 1.0000

Epoch 583/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0048 - accuracy: 1.0000

Epoch 584/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0048 - accuracy: 1.0000

Epoch 585/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0047 - accuracy: 1.0000

Epoch 586/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0047 - accuracy: 1.0000

Epoch 587/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0046 - accuracy: 1.0000

Epoch 588/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0046 - accuracy: 1.0000

Epoch 589/1000

13/13 [==============================] - 0s 3ms/step - loss: 0.0045 - accuracy: 1.0000

Epoch 590/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0045 - accuracy: 1.0000

Epoch 591/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0045 - accuracy: 1.0000

Epoch 592/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0044 - accuracy: 1.0000

Epoch 593/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0044 - accuracy: 1.0000

Epoch 594/1000

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Epoch 595/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0044 - accuracy: 1.0000

Epoch 596/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0043 - accuracy: 1.0000

Epoch 597/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0043 - accuracy: 1.0000

Epoch 598/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0042 - accuracy: 1.0000

Epoch 599/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0042 - accuracy: 1.0000

Epoch 600/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0041 - accuracy: 1.0000

Epoch 601/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0041 - accuracy: 1.0000

Epoch 602/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0041 - accuracy: 1.0000

Epoch 603/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0041 - accuracy: 1.0000

Epoch 604/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0040 - accuracy: 1.0000

Epoch 605/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0040 - accuracy: 1.0000

Epoch 606/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0040 - accuracy: 1.0000

Epoch 607/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0039 - accuracy: 1.0000

Epoch 608/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0039 - accuracy: 1.0000

Epoch 609/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0038 - accuracy: 1.0000

Epoch 610/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0039 - accuracy: 1.0000

Epoch 611/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0038 - accuracy: 1.0000

Epoch 612/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0038 - accuracy: 1.0000

Epoch 613/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0038 - accuracy: 1.0000

Epoch 614/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0037 - accuracy: 1.0000

Epoch 615/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0037 - accuracy: 1.0000

Epoch 616/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0036 - accuracy: 1.0000

Epoch 617/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0036 - accuracy: 1.0000

Epoch 618/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0036 - accuracy: 1.0000

Epoch 619/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0035 - accuracy: 1.0000

Epoch 620/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0035 - accuracy: 1.0000

Epoch 621/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0035 - accuracy: 1.0000

Epoch 622/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0035 - accuracy: 1.0000

Epoch 623/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0035 - accuracy: 1.0000

Epoch 624/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0034 - accuracy: 1.0000

Epoch 625/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0034 - accuracy: 1.0000

Epoch 626/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0033 - accuracy: 1.0000

Epoch 627/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0033 - accuracy: 1.0000

Epoch 628/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0033 - accuracy: 1.0000

Epoch 629/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0033 - accuracy: 1.0000

Epoch 630/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0032 - accuracy: 1.0000

Epoch 631/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0032 - accuracy: 1.0000

Epoch 632/1000

13/13 [==============================] - 0s 3ms/step - loss: 0.0032 - accuracy: 1.0000

Epoch 633/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0032 - accuracy: 1.0000

Epoch 634/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0031 - accuracy: 1.0000

Epoch 635/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0031 - accuracy: 1.0000

Epoch 636/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0031 - accuracy: 1.0000

Epoch 637/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0031 - accuracy: 1.0000

Epoch 638/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0030 - accuracy: 1.0000

Epoch 639/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0030 - accuracy: 1.0000

Epoch 640/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0030 - accuracy: 1.0000

Epoch 641/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0030 - accuracy: 1.0000

Epoch 642/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0029 - accuracy: 1.0000

Epoch 643/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0029 - accuracy: 1.0000

Epoch 644/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0029 - accuracy: 1.0000

Epoch 645/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0029 - accuracy: 1.0000

Epoch 646/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0028 - accuracy: 1.0000

Epoch 647/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0028 - accuracy: 1.0000

Epoch 648/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0028 - accuracy: 1.0000

Epoch 649/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0028 - accuracy: 1.0000

Epoch 650/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0028 - accuracy: 1.0000

Epoch 651/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0027 - accuracy: 1.0000

Epoch 652/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0027 - accuracy: 1.0000

Epoch 653/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0027 - accuracy: 1.0000

Epoch 654/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0027 - accuracy: 1.0000

Epoch 655/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0027 - accuracy: 1.0000

Epoch 656/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0026 - accuracy: 1.0000

Epoch 657/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0026 - accuracy: 1.0000

Epoch 658/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0026 - accuracy: 1.0000

Epoch 659/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0026 - accuracy: 1.0000

Epoch 660/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0026 - accuracy: 1.0000

Epoch 661/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0025 - accuracy: 1.0000

Epoch 662/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0025 - accuracy: 1.0000

Epoch 663/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0025 - accuracy: 1.0000

Epoch 664/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0025 - accuracy: 1.0000

Epoch 665/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0025 - accuracy: 1.0000

Epoch 666/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0024 - accuracy: 1.0000

Epoch 667/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0024 - accuracy: 1.0000

Epoch 668/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0024 - accuracy: 1.0000

Epoch 669/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0024 - accuracy: 1.0000

Epoch 670/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0024 - accuracy: 1.0000

Epoch 671/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0023 - accuracy: 1.0000

Epoch 672/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0023 - accuracy: 1.0000

Epoch 673/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0023 - accuracy: 1.0000

Epoch 674/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0023 - accuracy: 1.0000

Epoch 675/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0023 - accuracy: 1.0000

Epoch 676/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0023 - accuracy: 1.0000

Epoch 677/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0023 - accuracy: 1.0000

Epoch 678/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0022 - accuracy: 1.0000

Epoch 679/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0022 - accuracy: 1.0000

Epoch 680/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0022 - accuracy: 1.0000

Epoch 681/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0022 - accuracy: 1.0000

Epoch 682/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0021 - accuracy: 1.0000

Epoch 683/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0021 - accuracy: 1.0000

Epoch 684/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0021 - accuracy: 1.0000

Epoch 685/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0021 - accuracy: 1.0000

Epoch 686/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0021 - accuracy: 1.0000

Epoch 687/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0021 - accuracy: 1.0000

Epoch 688/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0020 - accuracy: 1.0000

Epoch 689/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0020 - accuracy: 1.0000

Epoch 690/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0020 - accuracy: 1.0000

Epoch 691/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0020 - accuracy: 1.0000

Epoch 692/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0020 - accuracy: 1.0000

Epoch 693/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0020 - accuracy: 1.0000

Epoch 694/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0019 - accuracy: 1.0000

Epoch 695/1000

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Epoch 696/1000

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Epoch 697/1000

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Epoch 698/1000

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Epoch 699/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0019 - accuracy: 1.0000

Epoch 700/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0019 - accuracy: 1.0000

Epoch 701/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0018 - accuracy: 1.0000

Epoch 702/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0018 - accuracy: 1.0000

Epoch 703/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0018 - accuracy: 1.0000

Epoch 704/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0018 - accuracy: 1.0000

Epoch 705/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0018 - accuracy: 1.0000

Epoch 706/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0018 - accuracy: 1.0000

Epoch 707/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0018 - accuracy: 1.0000

Epoch 708/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0017 - accuracy: 1.0000

Epoch 709/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0017 - accuracy: 1.0000

Epoch 710/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0017 - accuracy: 1.0000

Epoch 711/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0017 - accuracy: 1.0000

Epoch 712/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0017 - accuracy: 1.0000

Epoch 713/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0017 - accuracy: 1.0000

Epoch 714/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0017 - accuracy: 1.0000

Epoch 715/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0017 - accuracy: 1.0000

Epoch 716/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0016 - accuracy: 1.0000

Epoch 717/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0016 - accuracy: 1.0000

Epoch 718/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0016 - accuracy: 1.0000

Epoch 719/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0016 - accuracy: 1.0000

Epoch 720/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0016 - accuracy: 1.0000

Epoch 721/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0016 - accuracy: 1.0000

Epoch 722/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0016 - accuracy: 1.0000

Epoch 723/1000

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Epoch 724/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0015 - accuracy: 1.0000

Epoch 725/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0015 - accuracy: 1.0000

Epoch 726/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0015 - accuracy: 1.0000

Epoch 727/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0015 - accuracy: 1.0000

Epoch 728/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0015 - accuracy: 1.0000

Epoch 729/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0015 - accuracy: 1.0000

Epoch 730/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0015 - accuracy: 1.0000

Epoch 731/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0015 - accuracy: 1.0000

Epoch 732/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0015 - accuracy: 1.0000

Epoch 733/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0014 - accuracy: 1.0000

Epoch 734/1000

13/13 [==============================] - 0s 3ms/step - loss: 0.0014 - accuracy: 1.0000

Epoch 735/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0014 - accuracy: 1.0000

Epoch 736/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0014 - accuracy: 1.0000

Epoch 737/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0014 - accuracy: 1.0000

Epoch 738/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0014 - accuracy: 1.0000

Epoch 739/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0014 - accuracy: 1.0000

Epoch 740/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0014 - accuracy: 1.0000

Epoch 741/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0014 - accuracy: 1.0000

Epoch 742/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0014 - accuracy: 1.0000

Epoch 743/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0013 - accuracy: 1.0000

Epoch 744/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0013 - accuracy: 1.0000

Epoch 745/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0013 - accuracy: 1.0000

Epoch 746/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0013 - accuracy: 1.0000

Epoch 747/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0013 - accuracy: 1.0000

Epoch 748/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0013 - accuracy: 1.0000

Epoch 749/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0013 - accuracy: 1.0000

Epoch 750/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0013 - accuracy: 1.0000

Epoch 751/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0013 - accuracy: 1.0000

Epoch 752/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0013 - accuracy: 1.0000

Epoch 753/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0012 - accuracy: 1.0000

Epoch 754/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0012 - accuracy: 1.0000

Epoch 755/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0012 - accuracy: 1.0000

Epoch 756/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0012 - accuracy: 1.0000

Epoch 757/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0012 - accuracy: 1.0000

Epoch 758/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0012 - accuracy: 1.0000

Epoch 759/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0012 - accuracy: 1.0000

Epoch 760/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0012 - accuracy: 1.0000

Epoch 761/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0012 - accuracy: 1.0000

Epoch 762/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0012 - accuracy: 1.0000

Epoch 763/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0012 - accuracy: 1.0000

Epoch 764/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0011 - accuracy: 1.0000

Epoch 765/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0011 - accuracy: 1.0000

Epoch 766/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0011 - accuracy: 1.0000

Epoch 767/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0011 - accuracy: 1.0000

Epoch 768/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0011 - accuracy: 1.0000

Epoch 769/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0011 - accuracy: 1.0000

Epoch 770/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0011 - accuracy: 1.0000

Epoch 771/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0011 - accuracy: 1.0000

Epoch 772/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0011 - accuracy: 1.0000

Epoch 773/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0011 - accuracy: 1.0000

Epoch 774/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0011 - accuracy: 1.0000

Epoch 775/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0011 - accuracy: 1.0000

Epoch 776/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0010 - accuracy: 1.0000

Epoch 777/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0010 - accuracy: 1.0000

Epoch 778/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0010 - accuracy: 1.0000

Epoch 779/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0010 - accuracy: 1.0000

Epoch 780/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0010 - accuracy: 1.0000

Epoch 781/1000

13/13 [==============================] - 0s 2ms/step - loss: 0.0010 - accuracy: 1.0000

Epoch 782/1000

13/13 [==============================] - 0s 2ms/step - loss: 9.9870e-04 - accuracy: 1.0000

Epoch 783/1000

13/13 [==============================] - 0s 2ms/step - loss: 9.9159e-04 - accuracy: 1.0000

Epoch 784/1000

13/13 [==============================] - 0s 2ms/step - loss: 9.8402e-04 - accuracy: 1.0000

Epoch 785/1000

13/13 [==============================] - 0s 2ms/step - loss: 9.7537e-04 - accuracy: 1.0000

Epoch 786/1000

13/13 [==============================] - 0s 2ms/step - loss: 9.6897e-04 - accuracy: 1.0000

Epoch 787/1000

13/13 [==============================] - 0s 2ms/step - loss: 9.6110e-04 - accuracy: 1.0000

Epoch 788/1000

13/13 [==============================] - 0s 3ms/step - loss: 9.5313e-04 - accuracy: 1.0000

Epoch 789/1000

13/13 [==============================] - 0s 2ms/step - loss: 9.4828e-04 - accuracy: 1.0000

Epoch 790/1000

13/13 [==============================] - 0s 2ms/step - loss: 9.4052e-04 - accuracy: 1.0000

Epoch 791/1000

13/13 [==============================] - 0s 2ms/step - loss: 9.3578e-04 - accuracy: 1.0000

Epoch 792/1000

13/13 [==============================] - 0s 2ms/step - loss: 9.2663e-04 - accuracy: 1.0000

Epoch 793/1000

13/13 [==============================] - 0s 2ms/step - loss: 9.2066e-04 - accuracy: 1.0000

Epoch 794/1000

13/13 [==============================] - 0s 2ms/step - loss: 9.1511e-04 - accuracy: 1.0000

Epoch 795/1000

13/13 [==============================] - 0s 2ms/step - loss: 9.0510e-04 - accuracy: 1.0000

Epoch 796/1000

13/13 [==============================] - 0s 2ms/step - loss: 8.9919e-04 - accuracy: 1.0000

Epoch 797/1000

13/13 [==============================] - 0s 2ms/step - loss: 8.9086e-04 - accuracy: 1.0000

Epoch 798/1000

13/13 [==============================] - 0s 2ms/step - loss: 8.8658e-04 - accuracy: 1.0000

Epoch 799/1000

13/13 [==============================] - 0s 2ms/step - loss: 8.8014e-04 - accuracy: 1.0000

Epoch 800/1000

13/13 [==============================] - 0s 2ms/step - loss: 8.7358e-04 - accuracy: 1.0000

Epoch 801/1000

13/13 [==============================] - 0s 2ms/step - loss: 8.6644e-04 - accuracy: 1.0000

Epoch 802/1000

13/13 [==============================] - 0s 2ms/step - loss: 8.6181e-04 - accuracy: 1.0000

Epoch 803/1000

13/13 [==============================] - 0s 2ms/step - loss: 8.5378e-04 - accuracy: 1.0000

Epoch 804/1000

13/13 [==============================] - 0s 2ms/step - loss: 8.4759e-04 - accuracy: 1.0000

Epoch 805/1000

13/13 [==============================] - 0s 2ms/step - loss: 8.4090e-04 - accuracy: 1.0000

Epoch 806/1000

13/13 [==============================] - 0s 2ms/step - loss: 8.3472e-04 - accuracy: 1.0000

Epoch 807/1000

13/13 [==============================] - 0s 2ms/step - loss: 8.2798e-04 - accuracy: 1.0000

Epoch 808/1000

13/13 [==============================] - 0s 2ms/step - loss: 8.2115e-04 - accuracy: 1.0000

Epoch 809/1000

13/13 [==============================] - 0s 2ms/step - loss: 8.1840e-04 - accuracy: 1.0000

Epoch 810/1000

13/13 [==============================] - 0s 2ms/step - loss: 8.1123e-04 - accuracy: 1.0000

Epoch 811/1000

13/13 [==============================] - 0s 2ms/step - loss: 8.0606e-04 - accuracy: 1.0000

Epoch 812/1000

13/13 [==============================] - 0s 2ms/step - loss: 7.9975e-04 - accuracy: 1.0000

Epoch 813/1000

13/13 [==============================] - 0s 2ms/step - loss: 7.9495e-04 - accuracy: 1.0000

Epoch 814/1000

13/13 [==============================] - 0s 2ms/step - loss: 7.8764e-04 - accuracy: 1.0000

Epoch 815/1000

13/13 [==============================] - 0s 3ms/step - loss: 7.8123e-04 - accuracy: 1.0000

Epoch 816/1000

13/13 [==============================] - 0s 2ms/step - loss: 7.7550e-04 - accuracy: 1.0000

Epoch 817/1000

13/13 [==============================] - 0s 3ms/step - loss: 7.7101e-04 - accuracy: 1.0000

Epoch 818/1000

13/13 [==============================] - 0s 2ms/step - loss: 7.6516e-04 - accuracy: 1.0000

Epoch 819/1000

13/13 [==============================] - 0s 2ms/step - loss: 7.5967e-04 - accuracy: 1.0000

Epoch 820/1000

13/13 [==============================] - 0s 2ms/step - loss: 7.5414e-04 - accuracy: 1.0000

Epoch 821/1000

13/13 [==============================] - 0s 2ms/step - loss: 7.4892e-04 - accuracy: 1.0000

Epoch 822/1000

13/13 [==============================] - 0s 2ms/step - loss: 7.4312e-04 - accuracy: 1.0000

Epoch 823/1000

13/13 [==============================] - 0s 2ms/step - loss: 7.3927e-04 - accuracy: 1.0000

Epoch 824/1000

13/13 [==============================] - 0s 2ms/step - loss: 7.3280e-04 - accuracy: 1.0000

Epoch 825/1000

13/13 [==============================] - 0s 2ms/step - loss: 7.2789e-04 - accuracy: 1.0000

Epoch 826/1000

13/13 [==============================] - 0s 2ms/step - loss: 7.2279e-04 - accuracy: 1.0000

Epoch 827/1000

13/13 [==============================] - 0s 2ms/step - loss: 7.1594e-04 - accuracy: 1.0000

Epoch 828/1000

13/13 [==============================] - 0s 2ms/step - loss: 7.1549e-04 - accuracy: 1.0000

Epoch 829/1000

13/13 [==============================] - 0s 2ms/step - loss: 7.1115e-04 - accuracy: 1.0000

Epoch 830/1000

13/13 [==============================] - 0s 2ms/step - loss: 7.0174e-04 - accuracy: 1.0000

Epoch 831/1000

13/13 [==============================] - 0s 2ms/step - loss: 6.9508e-04 - accuracy: 1.0000

Epoch 832/1000

13/13 [==============================] - 0s 2ms/step - loss: 6.8852e-04 - accuracy: 1.0000

Epoch 833/1000

13/13 [==============================] - 0s 2ms/step - loss: 6.8407e-04 - accuracy: 1.0000

Epoch 834/1000

13/13 [==============================] - 0s 2ms/step - loss: 6.7878e-04 - accuracy: 1.0000

Epoch 835/1000

13/13 [==============================] - 0s 2ms/step - loss: 6.7303e-04 - accuracy: 1.0000

Epoch 836/1000

13/13 [==============================] - 0s 2ms/step - loss: 6.6833e-04 - accuracy: 1.0000

Epoch 837/1000

13/13 [==============================] - 0s 2ms/step - loss: 6.6299e-04 - accuracy: 1.0000

Epoch 838/1000

13/13 [==============================] - 0s 2ms/step - loss: 6.5844e-04 - accuracy: 1.0000

Epoch 839/1000

13/13 [==============================] - 0s 2ms/step - loss: 6.5357e-04 - accuracy: 1.0000

Epoch 840/1000

13/13 [==============================] - 0s 2ms/step - loss: 6.4838e-04 - accuracy: 1.0000

Epoch 841/1000

13/13 [==============================] - 0s 2ms/step - loss: 6.4433e-04 - accuracy: 1.0000

Epoch 842/1000

13/13 [==============================] - 0s 2ms/step - loss: 6.3929e-04 - accuracy: 1.0000

Epoch 843/1000

13/13 [==============================] - 0s 2ms/step - loss: 6.3522e-04 - accuracy: 1.0000

Epoch 844/1000

13/13 [==============================] - 0s 2ms/step - loss: 6.3028e-04 - accuracy: 1.0000

Epoch 845/1000

13/13 [==============================] - 0s 2ms/step - loss: 6.2479e-04 - accuracy: 1.0000

Epoch 846/1000

13/13 [==============================] - 0s 2ms/step - loss: 6.2338e-04 - accuracy: 1.0000

Epoch 847/1000

13/13 [==============================] - 0s 2ms/step - loss: 6.1777e-04 - accuracy: 1.0000

Epoch 848/1000

13/13 [==============================] - 0s 2ms/step - loss: 6.1097e-04 - accuracy: 1.0000

Epoch 849/1000

13/13 [==============================] - 0s 2ms/step - loss: 6.0744e-04 - accuracy: 1.0000

Epoch 850/1000

13/13 [==============================] - 0s 2ms/step - loss: 6.0294e-04 - accuracy: 1.0000

Epoch 851/1000

13/13 [==============================] - 0s 2ms/step - loss: 5.9796e-04 - accuracy: 1.0000

Epoch 852/1000

13/13 [==============================] - 0s 2ms/step - loss: 5.9399e-04 - accuracy: 1.0000

Epoch 853/1000

13/13 [==============================] - 0s 2ms/step - loss: 5.8938e-04 - accuracy: 1.0000

Epoch 854/1000

13/13 [==============================] - 0s 2ms/step - loss: 5.8639e-04 - accuracy: 1.0000

Epoch 855/1000

13/13 [==============================] - 0s 2ms/step - loss: 5.8098e-04 - accuracy: 1.0000

Epoch 856/1000

13/13 [==============================] - 0s 2ms/step - loss: 5.7635e-04 - accuracy: 1.0000

Epoch 857/1000

13/13 [==============================] - 0s 2ms/step - loss: 5.7277e-04 - accuracy: 1.0000

Epoch 858/1000

13/13 [==============================] - 0s 2ms/step - loss: 5.6986e-04 - accuracy: 1.0000

Epoch 859/1000

13/13 [==============================] - 0s 2ms/step - loss: 5.6588e-04 - accuracy: 1.0000

Epoch 860/1000

13/13 [==============================] - 0s 2ms/step - loss: 5.6095e-04 - accuracy: 1.0000

Epoch 861/1000

13/13 [==============================] - 0s 2ms/step - loss: 5.5591e-04 - accuracy: 1.0000

Epoch 862/1000

13/13 [==============================] - 0s 2ms/step - loss: 5.5197e-04 - accuracy: 1.0000

Epoch 863/1000

13/13 [==============================] - 0s 2ms/step - loss: 5.4793e-04 - accuracy: 1.0000

Epoch 864/1000

13/13 [==============================] - 0s 2ms/step - loss: 5.4456e-04 - accuracy: 1.0000

Epoch 865/1000

13/13 [==============================] - 0s 2ms/step - loss: 5.4033e-04 - accuracy: 1.0000

Epoch 866/1000

13/13 [==============================] - 0s 2ms/step - loss: 5.3558e-04 - accuracy: 1.0000

Epoch 867/1000

13/13 [==============================] - 0s 2ms/step - loss: 5.3271e-04 - accuracy: 1.0000

Epoch 868/1000

13/13 [==============================] - 0s 2ms/step - loss: 5.2869e-04 - accuracy: 1.0000

Epoch 869/1000

13/13 [==============================] - 0s 2ms/step - loss: 5.2526e-04 - accuracy: 1.0000

Epoch 870/1000

13/13 [==============================] - 0s 2ms/step - loss: 5.2062e-04 - accuracy: 1.0000

Epoch 871/1000

13/13 [==============================] - 0s 2ms/step - loss: 5.1743e-04 - accuracy: 1.0000

Epoch 872/1000

13/13 [==============================] - 0s 2ms/step - loss: 5.1281e-04 - accuracy: 1.0000

Epoch 873/1000

13/13 [==============================] - 0s 2ms/step - loss: 5.0902e-04 - accuracy: 1.0000

Epoch 874/1000

13/13 [==============================] - 0s 2ms/step - loss: 5.0596e-04 - accuracy: 1.0000

Epoch 875/1000

13/13 [==============================] - 0s 2ms/step - loss: 5.0264e-04 - accuracy: 1.0000

Epoch 876/1000

13/13 [==============================] - 0s 2ms/step - loss: 4.9929e-04 - accuracy: 1.0000

Epoch 877/1000

13/13 [==============================] - 0s 2ms/step - loss: 4.9548e-04 - accuracy: 1.0000

Epoch 878/1000

13/13 [==============================] - 0s 2ms/step - loss: 4.9104e-04 - accuracy: 1.0000

Epoch 879/1000

13/13 [==============================] - 0s 2ms/step - loss: 4.8740e-04 - accuracy: 1.0000

Epoch 880/1000

13/13 [==============================] - 0s 2ms/step - loss: 4.8411e-04 - accuracy: 1.0000

Epoch 881/1000

13/13 [==============================] - 0s 2ms/step - loss: 4.8213e-04 - accuracy: 1.0000

Epoch 882/1000

13/13 [==============================] - 0s 2ms/step - loss: 4.8529e-04 - accuracy: 1.0000

Epoch 883/1000

13/13 [==============================] - 0s 2ms/step - loss: 4.7554e-04 - accuracy: 1.0000

Epoch 884/1000

13/13 [==============================] - 0s 2ms/step - loss: 4.7216e-04 - accuracy: 1.0000

Epoch 885/1000

13/13 [==============================] - 0s 2ms/step - loss: 4.6599e-04 - accuracy: 1.0000

Epoch 886/1000

13/13 [==============================] - 0s 2ms/step - loss: 4.6336e-04 - accuracy: 1.0000

Epoch 887/1000

13/13 [==============================] - 0s 2ms/step - loss: 4.5947e-04 - accuracy: 1.0000

Epoch 888/1000

13/13 [==============================] - 0s 2ms/step - loss: 4.5661e-04 - accuracy: 1.0000

Epoch 889/1000

13/13 [==============================] - 0s 2ms/step - loss: 4.5378e-04 - accuracy: 1.0000

Epoch 890/1000

13/13 [==============================] - 0s 2ms/step - loss: 4.5022e-04 - accuracy: 1.0000

Epoch 891/1000

13/13 [==============================] - 0s 2ms/step - loss: 4.4580e-04 - accuracy: 1.0000

Epoch 892/1000

13/13 [==============================] - 0s 2ms/step - loss: 4.4270e-04 - accuracy: 1.0000

Epoch 893/1000

13/13 [==============================] - 0s 2ms/step - loss: 4.3956e-04 - accuracy: 1.0000

Epoch 894/1000

13/13 [==============================] - 0s 2ms/step - loss: 4.3660e-04 - accuracy: 1.0000

Epoch 895/1000

13/13 [==============================] - 0s 2ms/step - loss: 4.3318e-04 - accuracy: 1.0000

Epoch 896/1000

13/13 [==============================] - 0s 2ms/step - loss: 4.2979e-04 - accuracy: 1.0000

Epoch 897/1000

13/13 [==============================] - 0s 2ms/step - loss: 4.2690e-04 - accuracy: 1.0000

Epoch 898/1000

13/13 [==============================] - 0s 2ms/step - loss: 4.2394e-04 - accuracy: 1.0000

Epoch 899/1000

13/13 [==============================] - 0s 2ms/step - loss: 4.2384e-04 - accuracy: 1.0000

Epoch 900/1000

13/13 [==============================] - 0s 2ms/step - loss: 4.1799e-04 - accuracy: 1.0000

Epoch 901/1000

13/13 [==============================] - 0s 2ms/step - loss: 4.1471e-04 - accuracy: 1.0000

Epoch 902/1000

13/13 [==============================] - 0s 2ms/step - loss: 4.1221e-04 - accuracy: 1.0000

Epoch 903/1000

13/13 [==============================] - 0s 2ms/step - loss: 4.0920e-04 - accuracy: 1.0000

Epoch 904/1000

13/13 [==============================] - 0s 2ms/step - loss: 4.0599e-04 - accuracy: 1.0000

Epoch 905/1000

13/13 [==============================] - 0s 2ms/step - loss: 4.0360e-04 - accuracy: 1.0000

Epoch 906/1000

13/13 [==============================] - 0s 2ms/step - loss: 4.0221e-04 - accuracy: 1.0000

Epoch 907/1000

13/13 [==============================] - 0s 2ms/step - loss: 3.9705e-04 - accuracy: 1.0000

Epoch 908/1000

13/13 [==============================] - 0s 2ms/step - loss: 3.9373e-04 - accuracy: 1.0000

Epoch 909/1000

13/13 [==============================] - 0s 2ms/step - loss: 3.9173e-04 - accuracy: 1.0000

Epoch 910/1000

13/13 [==============================] - 0s 2ms/step - loss: 3.8927e-04 - accuracy: 1.0000

Epoch 911/1000

13/13 [==============================] - 0s 2ms/step - loss: 3.8821e-04 - accuracy: 1.0000

Epoch 912/1000

13/13 [==============================] - 0s 2ms/step - loss: 3.8469e-04 - accuracy: 1.0000

Epoch 913/1000

13/13 [==============================] - 0s 2ms/step - loss: 3.8095e-04 - accuracy: 1.0000

Epoch 914/1000

13/13 [==============================] - 0s 2ms/step - loss: 3.7760e-04 - accuracy: 1.0000

Epoch 915/1000

13/13 [==============================] - 0s 2ms/step - loss: 3.7419e-04 - accuracy: 1.0000

Epoch 916/1000

13/13 [==============================] - 0s 2ms/step - loss: 3.7085e-04 - accuracy: 1.0000

Epoch 917/1000

13/13 [==============================] - 0s 2ms/step - loss: 3.6851e-04 - accuracy: 1.0000

Epoch 918/1000

13/13 [==============================] - 0s 2ms/step - loss: 3.6534e-04 - accuracy: 1.0000

Epoch 919/1000

13/13 [==============================] - 0s 2ms/step - loss: 3.6261e-04 - accuracy: 1.0000

Epoch 920/1000

13/13 [==============================] - 0s 2ms/step - loss: 3.6050e-04 - accuracy: 1.0000

Epoch 921/1000

13/13 [==============================] - 0s 2ms/step - loss: 3.5783e-04 - accuracy: 1.0000

Epoch 922/1000

13/13 [==============================] - 0s 2ms/step - loss: 3.5532e-04 - accuracy: 1.0000

Epoch 923/1000

13/13 [==============================] - 0s 2ms/step - loss: 3.5270e-04 - accuracy: 1.0000

Epoch 924/1000

13/13 [==============================] - 0s 2ms/step - loss: 3.5016e-04 - accuracy: 1.0000

Epoch 925/1000

13/13 [==============================] - 0s 2ms/step - loss: 3.4743e-04 - accuracy: 1.0000

Epoch 926/1000

13/13 [==============================] - 0s 2ms/step - loss: 3.4539e-04 - accuracy: 1.0000

Epoch 927/1000

13/13 [==============================] - 0s 2ms/step - loss: 3.4285e-04 - accuracy: 1.0000

Epoch 928/1000

13/13 [==============================] - 0s 2ms/step - loss: 3.4027e-04 - accuracy: 1.0000

Epoch 929/1000

13/13 [==============================] - 0s 2ms/step - loss: 3.3729e-04 - accuracy: 1.0000

Epoch 930/1000

13/13 [==============================] - 0s 3ms/step - loss: 3.3492e-04 - accuracy: 1.0000

Epoch 931/1000

13/13 [==============================] - 0s 3ms/step - loss: 3.3294e-04 - accuracy: 1.0000

Epoch 932/1000

13/13 [==============================] - 0s 2ms/step - loss: 3.3029e-04 - accuracy: 1.0000

Epoch 933/1000

13/13 [==============================] - 0s 2ms/step - loss: 3.2885e-04 - accuracy: 1.0000

Epoch 934/1000

13/13 [==============================] - 0s 2ms/step - loss: 3.2580e-04 - accuracy: 1.0000

Epoch 935/1000

13/13 [==============================] - 0s 2ms/step - loss: 3.2344e-04 - accuracy: 1.0000

Epoch 936/1000

13/13 [==============================] - 0s 2ms/step - loss: 3.2161e-04 - accuracy: 1.0000

Epoch 937/1000

13/13 [==============================] - 0s 2ms/step - loss: 3.1908e-04 - accuracy: 1.0000

Epoch 938/1000

13/13 [==============================] - 0s 2ms/step - loss: 3.1721e-04 - accuracy: 1.0000

Epoch 939/1000

13/13 [==============================] - 0s 2ms/step - loss: 3.1592e-04 - accuracy: 1.0000

Epoch 940/1000

13/13 [==============================] - 0s 2ms/step - loss: 3.1275e-04 - accuracy: 1.0000

Epoch 941/1000

13/13 [==============================] - 0s 2ms/step - loss: 3.1028e-04 - accuracy: 1.0000

Epoch 942/1000

13/13 [==============================] - 0s 2ms/step - loss: 3.0832e-04 - accuracy: 1.0000

Epoch 943/1000

13/13 [==============================] - 0s 2ms/step - loss: 3.0585e-04 - accuracy: 1.0000

Epoch 944/1000

13/13 [==============================] - 0s 2ms/step - loss: 3.0401e-04 - accuracy: 1.0000

Epoch 945/1000

13/13 [==============================] - 0s 3ms/step - loss: 3.0184e-04 - accuracy: 1.0000

Epoch 946/1000

13/13 [==============================] - 0s 3ms/step - loss: 2.9974e-04 - accuracy: 1.0000

Epoch 947/1000

13/13 [==============================] - 0s 3ms/step - loss: 2.9888e-04 - accuracy: 1.0000

Epoch 948/1000

13/13 [==============================] - 0s 3ms/step - loss: 2.9513e-04 - accuracy: 1.0000

Epoch 949/1000

13/13 [==============================] - 0s 2ms/step - loss: 2.9420e-04 - accuracy: 1.0000

Epoch 950/1000

13/13 [==============================] - 0s 2ms/step - loss: 2.9207e-04 - accuracy: 1.0000

Epoch 951/1000

13/13 [==============================] - 0s 2ms/step - loss: 2.8927e-04 - accuracy: 1.0000

Epoch 952/1000

13/13 [==============================] - 0s 2ms/step - loss: 2.8731e-04 - accuracy: 1.0000

Epoch 953/1000

13/13 [==============================] - 0s 2ms/step - loss: 2.8520e-04 - accuracy: 1.0000

Epoch 954/1000

13/13 [==============================] - 0s 2ms/step - loss: 2.8297e-04 - accuracy: 1.0000

Epoch 955/1000

13/13 [==============================] - 0s 2ms/step - loss: 2.8052e-04 - accuracy: 1.0000

Epoch 956/1000

13/13 [==============================] - 0s 2ms/step - loss: 2.7858e-04 - accuracy: 1.0000

Epoch 957/1000

13/13 [==============================] - 0s 2ms/step - loss: 2.7603e-04 - accuracy: 1.0000

Epoch 958/1000

13/13 [==============================] - 0s 2ms/step - loss: 2.7446e-04 - accuracy: 1.0000

Epoch 959/1000

13/13 [==============================] - 0s 2ms/step - loss: 2.7246e-04 - accuracy: 1.0000

Epoch 960/1000

13/13 [==============================] - 0s 2ms/step - loss: 2.7046e-04 - accuracy: 1.0000

Epoch 961/1000

13/13 [==============================] - 0s 2ms/step - loss: 2.6764e-04 - accuracy: 1.0000

Epoch 962/1000

13/13 [==============================] - 0s 2ms/step - loss: 2.6631e-04 - accuracy: 1.0000

Epoch 963/1000

13/13 [==============================] - 0s 2ms/step - loss: 2.6473e-04 - accuracy: 1.0000

Epoch 964/1000

13/13 [==============================] - 0s 2ms/step - loss: 2.6262e-04 - accuracy: 1.0000

Epoch 965/1000

13/13 [==============================] - 0s 2ms/step - loss: 2.6085e-04 - accuracy: 1.0000

Epoch 966/1000

13/13 [==============================] - 0s 2ms/step - loss: 2.5922e-04 - accuracy: 1.0000

Epoch 967/1000

13/13 [==============================] - 0s 2ms/step - loss: 2.5773e-04 - accuracy: 1.0000

Epoch 968/1000

13/13 [==============================] - 0s 2ms/step - loss: 2.5573e-04 - accuracy: 1.0000

Epoch 969/1000

13/13 [==============================] - 0s 3ms/step - loss: 2.5394e-04 - accuracy: 1.0000

Epoch 970/1000

13/13 [==============================] - 0s 2ms/step - loss: 2.5269e-04 - accuracy: 1.0000

Epoch 971/1000

13/13 [==============================] - 0s 2ms/step - loss: 2.5077e-04 - accuracy: 1.0000

Epoch 972/1000

13/13 [==============================] - 0s 2ms/step - loss: 2.4877e-04 - accuracy: 1.0000

Epoch 973/1000

13/13 [==============================] - 0s 2ms/step - loss: 2.4695e-04 - accuracy: 1.0000

Epoch 974/1000

13/13 [==============================] - 0s 2ms/step - loss: 2.4549e-04 - accuracy: 1.0000

Epoch 975/1000

13/13 [==============================] - 0s 2ms/step - loss: 2.4366e-04 - accuracy: 1.0000

Epoch 976/1000

13/13 [==============================] - 0s 3ms/step - loss: 2.4198e-04 - accuracy: 1.0000

Epoch 977/1000

13/13 [==============================] - 0s 2ms/step - loss: 2.4022e-04 - accuracy: 1.0000

Epoch 978/1000

13/13 [==============================] - 0s 2ms/step - loss: 2.3934e-04 - accuracy: 1.0000

Epoch 979/1000

13/13 [==============================] - 0s 2ms/step - loss: 2.3729e-04 - accuracy: 1.0000

Epoch 980/1000

13/13 [==============================] - 0s 2ms/step - loss: 2.3588e-04 - accuracy: 1.0000

Epoch 981/1000

13/13 [==============================] - 0s 2ms/step - loss: 2.3340e-04 - accuracy: 1.0000

Epoch 982/1000

13/13 [==============================] - 0s 2ms/step - loss: 2.3227e-04 - accuracy: 1.0000

Epoch 983/1000

13/13 [==============================] - 0s 2ms/step - loss: 2.3073e-04 - accuracy: 1.0000

Epoch 984/1000

13/13 [==============================] - 0s 2ms/step - loss: 2.2853e-04 - accuracy: 1.0000

Epoch 985/1000

13/13 [==============================] - 0s 2ms/step - loss: 2.2715e-04 - accuracy: 1.0000

Epoch 986/1000

13/13 [==============================] - 0s 2ms/step - loss: 2.2610e-04 - accuracy: 1.0000

Epoch 987/1000

13/13 [==============================] - 0s 2ms/step - loss: 2.2441e-04 - accuracy: 1.0000

Epoch 988/1000

13/13 [==============================] - 0s 2ms/step - loss: 2.2238e-04 - accuracy: 1.0000

Epoch 989/1000

13/13 [==============================] - 0s 2ms/step - loss: 2.2134e-04 - accuracy: 1.0000

Epoch 990/1000

13/13 [==============================] - 0s 2ms/step - loss: 2.1939e-04 - accuracy: 1.0000

Epoch 991/1000

13/13 [==============================] - 0s 2ms/step - loss: 2.1789e-04 - accuracy: 1.0000

Epoch 992/1000

13/13 [==============================] - 0s 2ms/step - loss: 2.1612e-04 - accuracy: 1.0000

Epoch 993/1000

13/13 [==============================] - 0s 2ms/step - loss: 2.1477e-04 - accuracy: 1.0000

Epoch 994/1000

13/13 [==============================] - 0s 2ms/step - loss: 2.1391e-04 - accuracy: 1.0000

Epoch 995/1000

13/13 [==============================] - 0s 2ms/step - loss: 2.1296e-04 - accuracy: 1.0000

Epoch 996/1000

13/13 [==============================] - 0s 2ms/step - loss: 2.1102e-04 - accuracy: 1.0000

Epoch 997/1000

13/13 [==============================] - 0s 2ms/step - loss: 2.0857e-04 - accuracy: 1.0000

Epoch 998/1000

13/13 [==============================] - 0s 2ms/step - loss: 2.0729e-04 - accuracy: 1.0000

Epoch 999/1000

13/13 [==============================] - 0s 2ms/step - loss: 2.0606e-04 - accuracy: 1.0000

Epoch 1000/1000

13/13 [==============================] - 0s 2ms/step - loss: 2.0420e-04 - accuracy: 1.0000