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EXP_NO: 5

```
In [9]:  ▶| test_loss = model.evaluate(X_test, y_test)
            print(f'Test Loss: {test_loss:.4f}')

            7/7 [==============================] - 0s 5ms/step - loss: 0.0241
            Test Loss: 0.0241
```

```
In [10]: ▶| y_pred = model.predict(X_test)
            r2 = r2_score(y_test, y_pred)
            print(f'Test Accuracy (R^2): {r2:.4f}')

            7/7 [==============================] - 0s 5ms/step
            Test Accuracy (R^2): 0.9974
```

```
In [11]: ▶| new_data = np.random.randn(5, seq_length, 1)
            predictions = model.predict(new_data)
            print("Predictions for new data:")
            print(predictions)

            1/1 [==============================] - 0s 52ms/step
            Predictions for new data:
            [[ 1.7613161 ]
             [ 0.40740597]
             [-2.23266   ]
             [-0.6163975 ]
             [-3.7167645 ]]
```