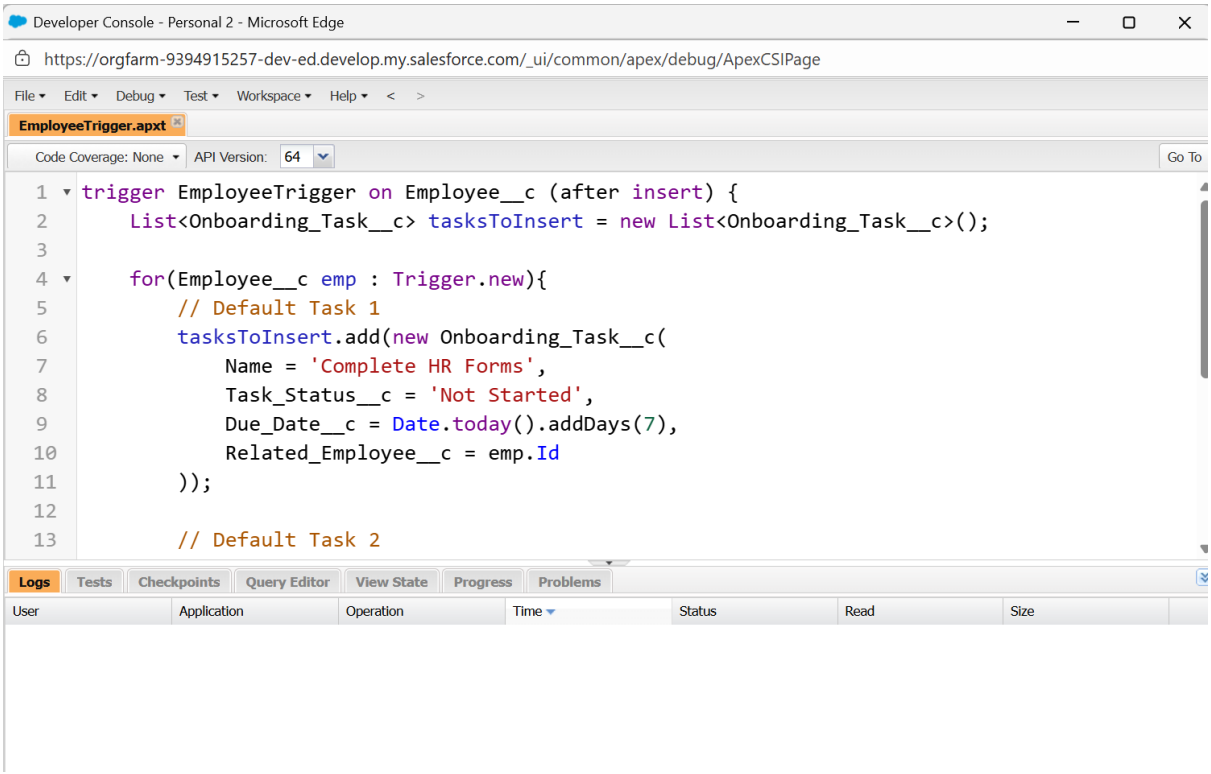
Phase 5: Apex Programming (Developer)

Objective

The purpose of this phase is to extend Salesforce functionality using **Apex programming**. In this project, Apex is used to automatically create onboarding tasks, assign training modules, and ensure code quality with test coverage. Apex enables logic that cannot be achieved through point-and-click tools alone.

Apex Trigger – Auto-Create Onboarding Tasks

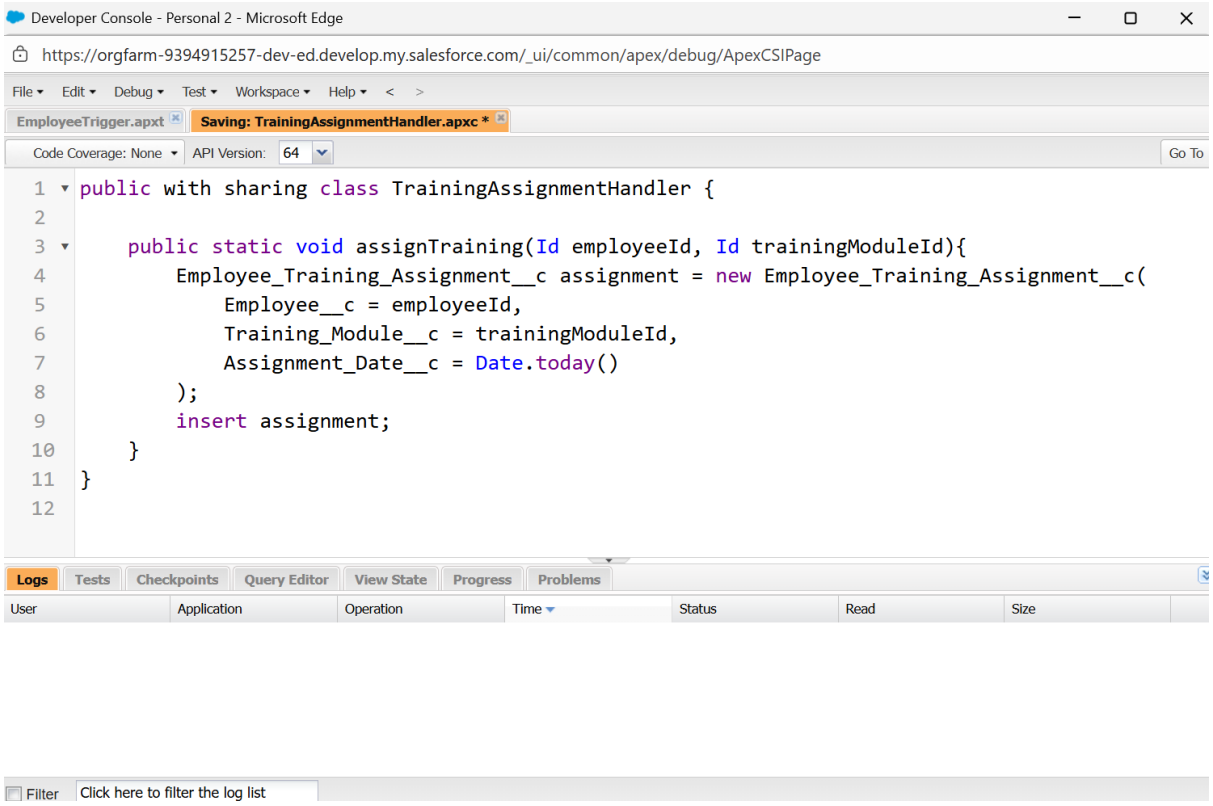
- **Purpose:** Whenever a new Employee is created, assign default onboarding tasks automatically.
- **Trigger Code:**



- **Expected Output:** Two tasks (“Complete HR Forms” and “Attend Orientation Session”) are created automatically for every new employee.

Apex Class – Assign Training Modules

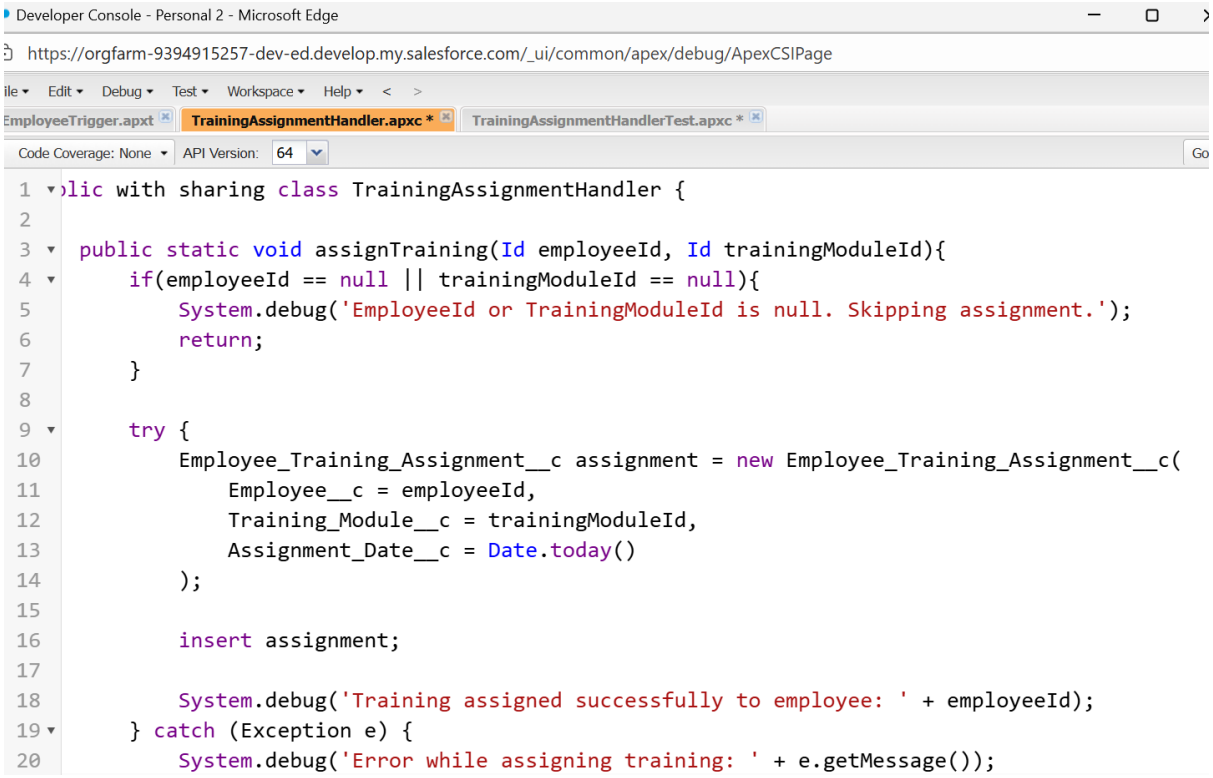
- **Purpose:** Provide a reusable method to assign a training module to an employee.
- **Class Code:**



Expected Output: A new record in **Employee Training Assignment** is created linking the Employee and Training Module.

Apex Test Class – Ensuring Code Coverage

- **Purpose:** Verify Apex logic works correctly and achieve minimum 75% code coverage.
- **Test Class Code:**



Expected Output: Test class runs successfully, passes all assertions, and provides coverage for the TrainingAssignmentHandler class.

Outcome of Phase 5

- Default onboarding tasks are automatically created for new employees using an **Apex Trigger**.
- Employees can be linked to training modules through a reusable **Apex Class**.
- A **Test Class** validates the logic and ensures that the code meets Salesforce deployment requirements with sufficient coverage.