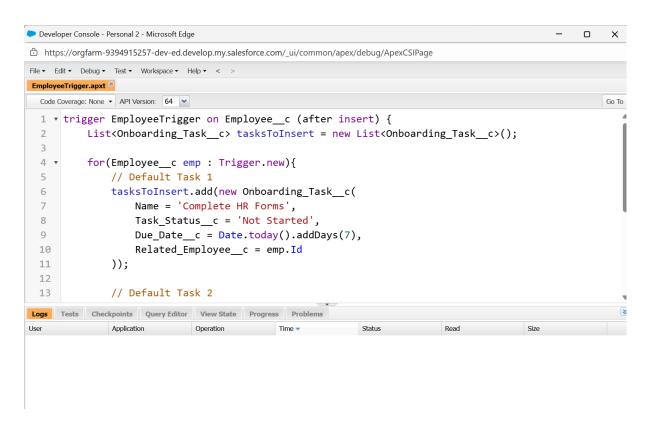
Phase 5: Apex Programming (Developer)

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

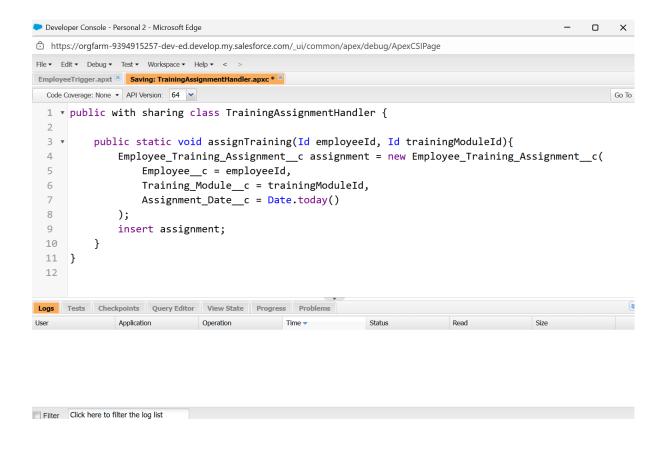
- Purpose: Whenever a new Employee is created, assign default onboarding tasks automatically.
- Trigger Code:



• **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:

```
Developer Console - Personal 2 - Microsoft Edge
                                                                                                      https://orgfarm-9394915257-dev-ed.develop.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage
ile ▼ Edit ▼ Debug ▼ Test ▼ Workspace ▼ Help ▼ < >
EmployeeTrigger.apxt TrainingAssignmentHandler.apxc TrainingAssignmentHandlerTest.apxc
 Code Coverage: None ▼ API Version: 64 ▼
 1 v)lic with sharing class TrainingAssignmentHandler {
 3 r public static void assignTraining(Id employeeId, Id trainingModuleId){
           if(employeeId == null || trainingModuleId == null){
 5
               System.debug('EmployeeId or TrainingModuleId is null. Skipping assignment.');
 6
 7
          }
 8
 9 ▼
          try {
 10
               Employee_Training_Assignment__c assignment = new Employee_Training_Assignment__c(
11
                   Employee__c = employeeId,
12
                   Training_Module__c = trainingModuleId,
13
                   Assignment_Date__c = Date.today()
14
15
               insert assignment;
17
               System.debug('Training assigned successfully to employee: ' + employeeId);
          } catch (Exception e) {
               System.debug('Error while assigning training: ' + e.getMessage());
20
```

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.