Phase 5 Completion Report – Apex Programming (Developer)

1. Classes & Objects

- **Create an Apex Class**

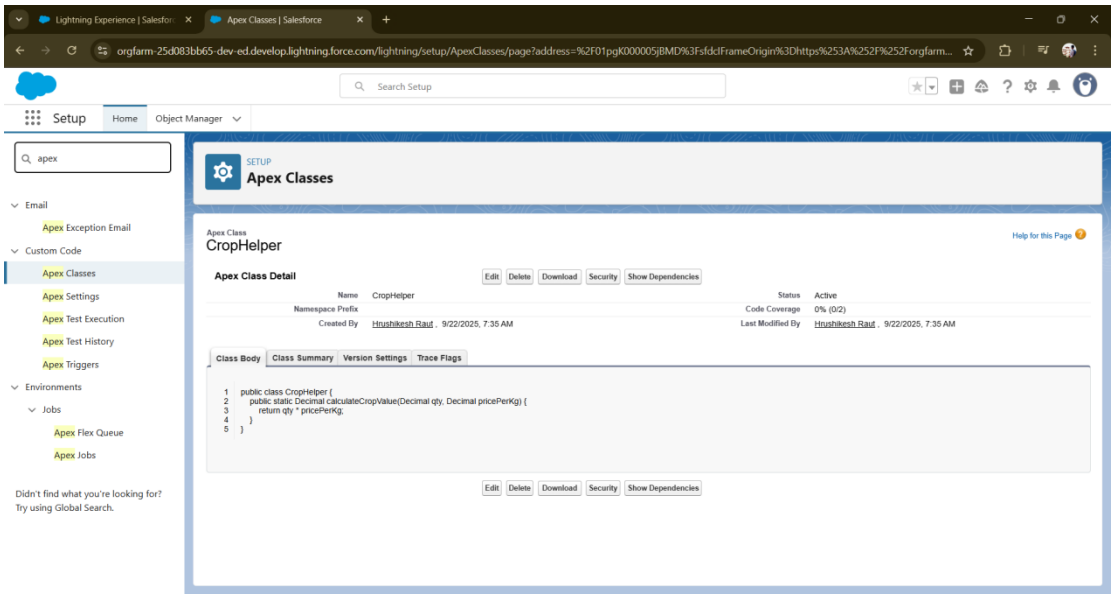
Steps:

1. In Salesforce → Setup → Quick Find → **Apex Classes** → New.

OR Developer Console → File → New → Apex Class.

2. Enter Class Name and click OK.
3. Write Apex code implementing the required logic.
4. Save the class.

Example: Utility class to calculate total crop value.



2. Apex Triggers

Steps to Create Trigger:

1. Developer Console → File → New → Apex Trigger.

2. Select Object

3. Write Trigger code .

4. Save the trigger

✧ **Example** :Let's create a Trigger i.e.

When a Deal is **Closed Won**, automatically update the available Crop quantity.

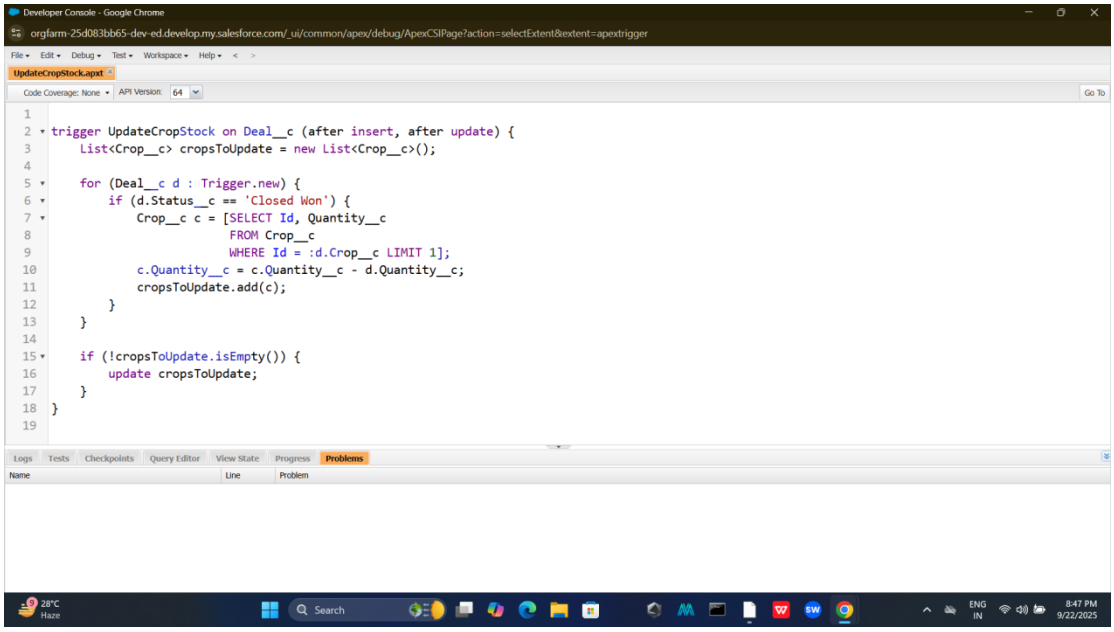
Steps:

Setup → Apex Triggers → New Trigger.

Select **Deal__c** object.

Add Trigger Code as mentioned in screenshot

Save & Test: Close a Deal → Crop stock reduces



3. SOQL (Salesforce Object Query Language)

---- Used to query data inside Apex.

Example Query:

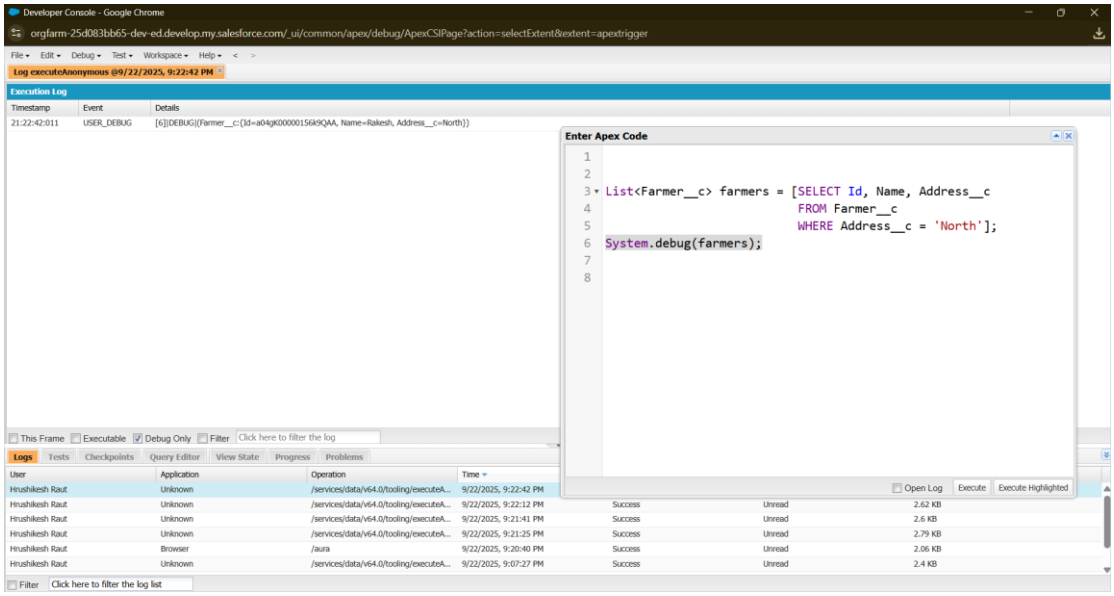
List<Farm__c> farmers = [SELECT Id, Name, Address__c
FROM Farmer__c
WHERE Address_c = 'North'];

'Queries Can Run in developer console'

i. Enter Ctrl + E to open window for code

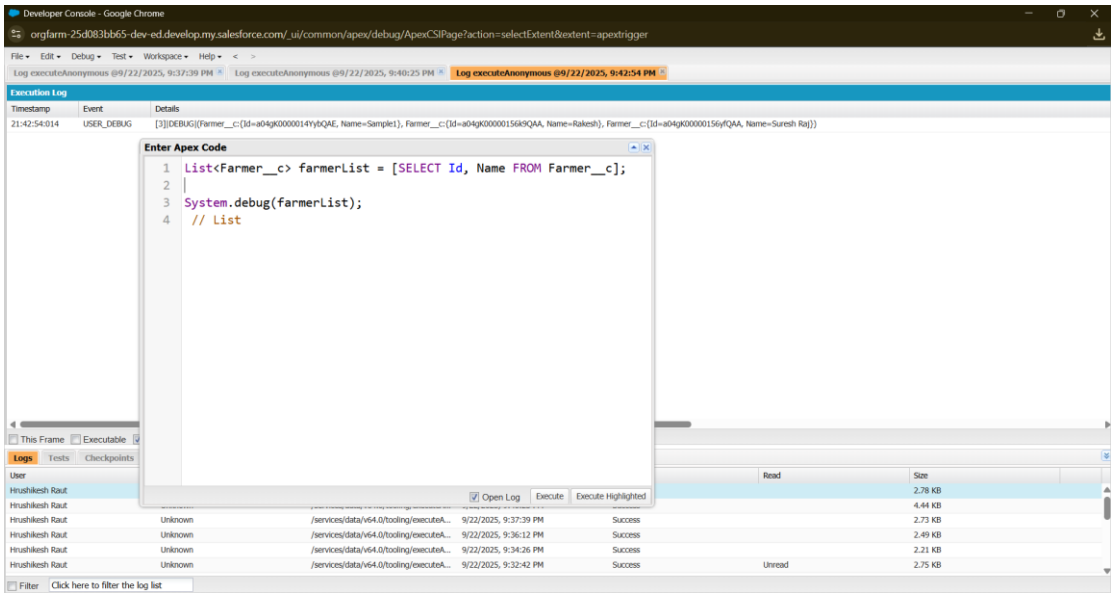
ii. Enter Query followed by Debug Command

iii. Click Execute

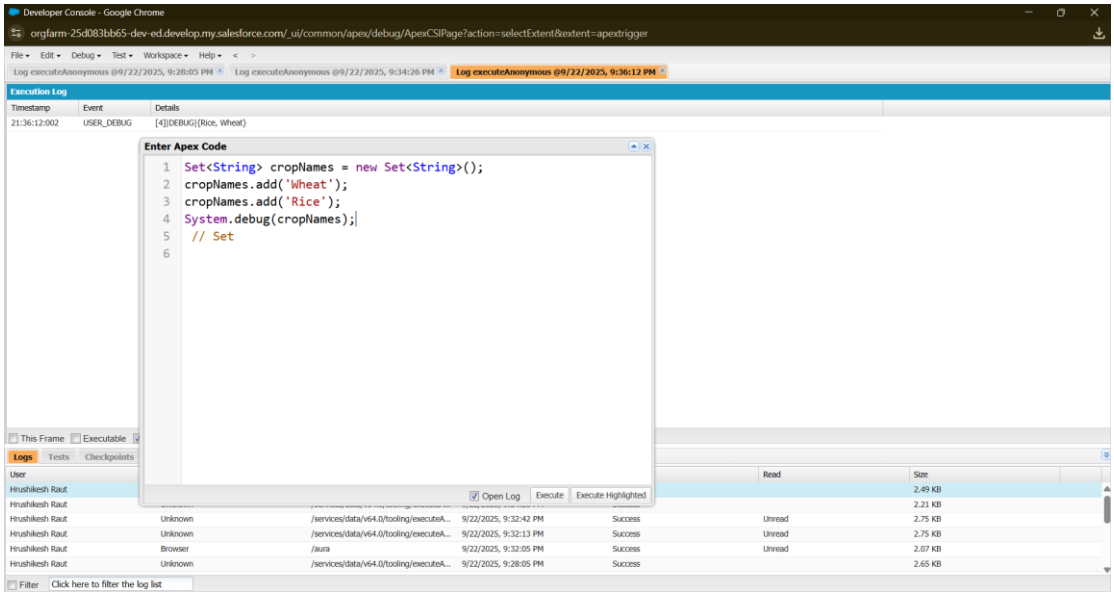


4. Collections: List, Set, Map

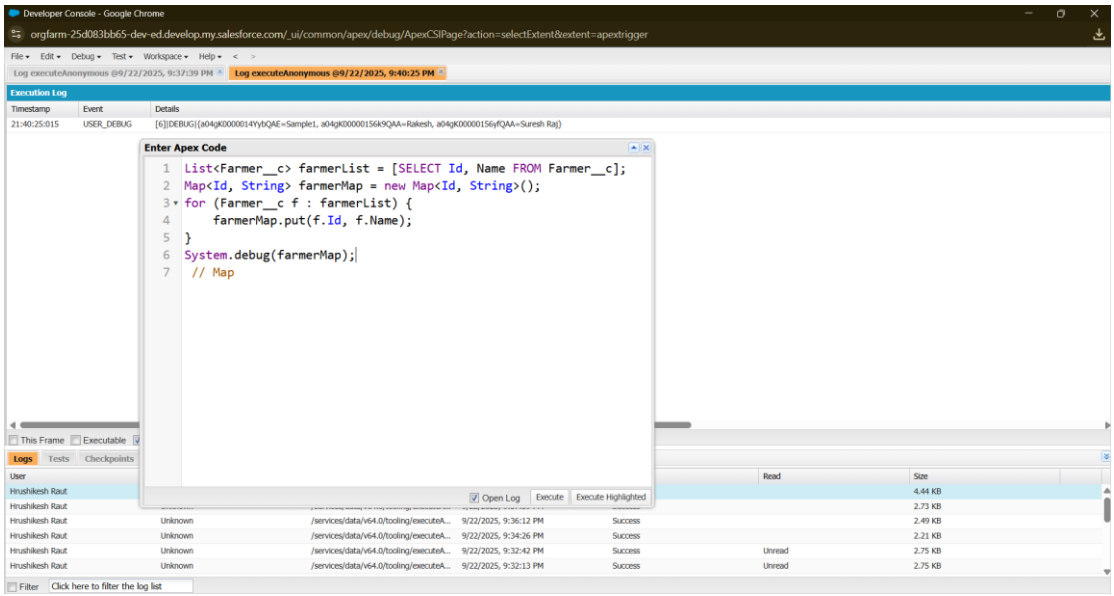
- **List:** Store multiple Farmers



- **Set:** Unique crop names.

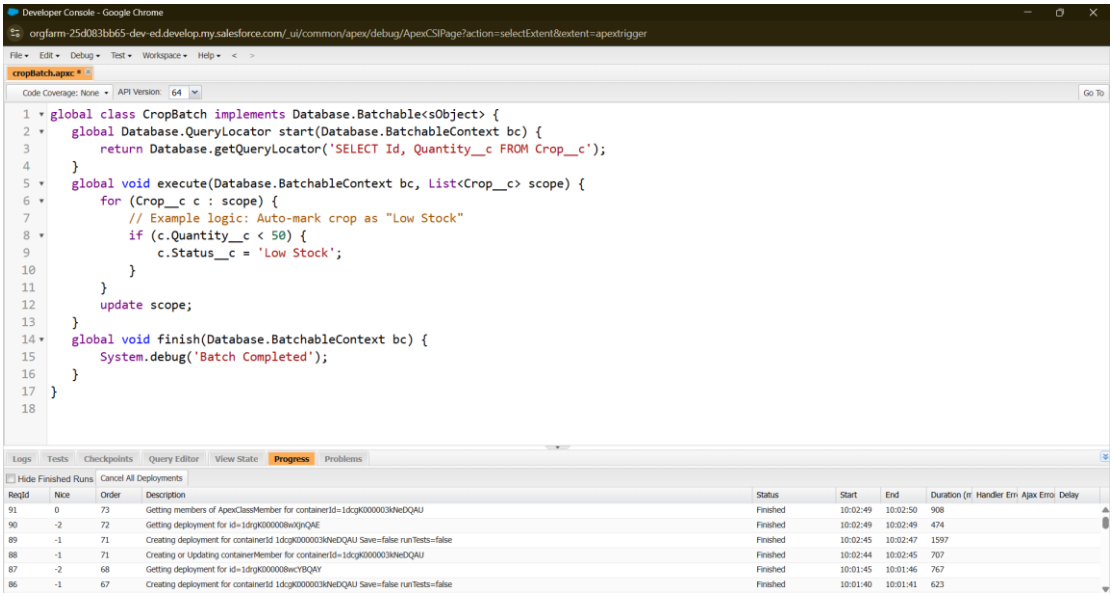


- **Map:** Match Farmer IDs with Names.



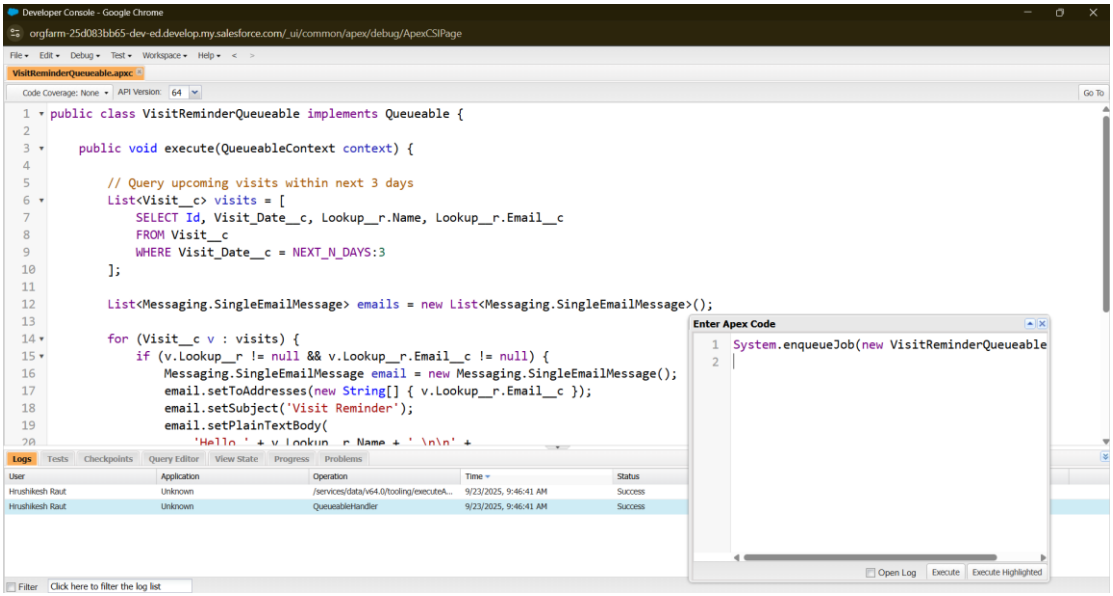
5. Batch Apex

✧ Batch Apex – Weekly Update Crop Reports :



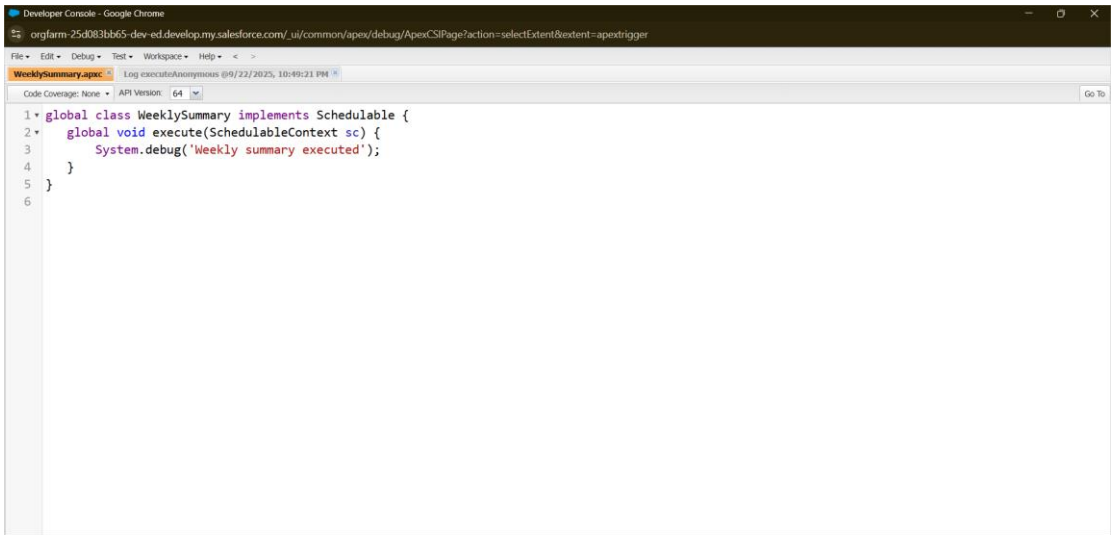
6. Queueable Apex

✧ Queueable Apex –Visit Reminder :

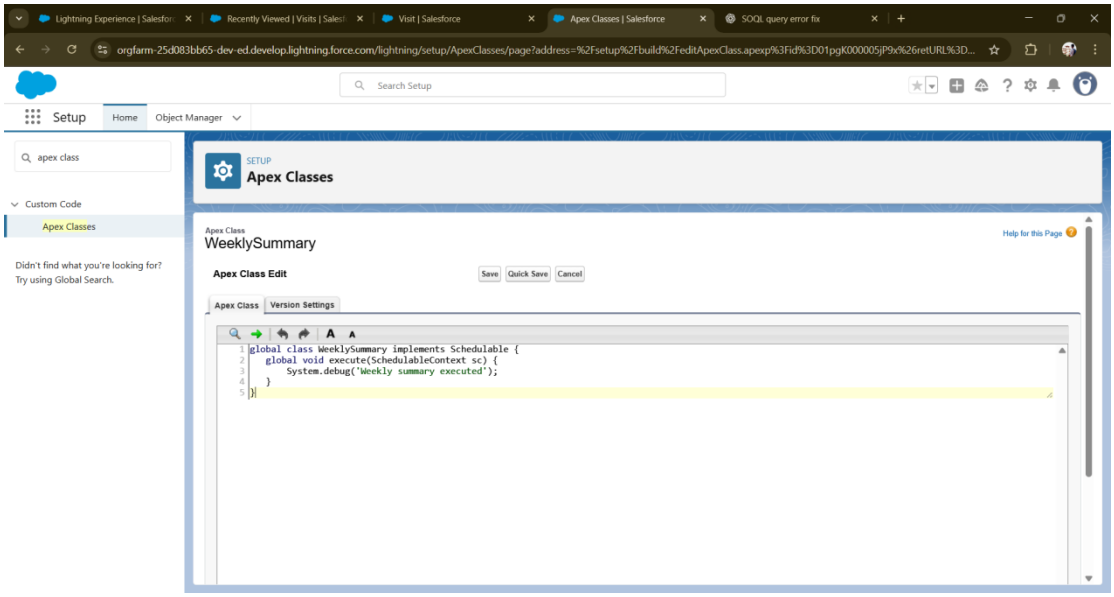


7. Schedule Apex

✧ Scheduled Apex – Run Every Week :



Setup → Apex Classes → Schedule Apex or via Developer Console.



8. Test Classes

Requires 75% code coverage.

Steps:

Setup → Apex Test Execution → New Test.

Enter the test class name

Enter test class code

Save & Run

Steps to run via setup :

- Go to **Setup → Apex Test Execution**.
- Click **Select Tests** → Pick **VisitReminderQueueableTest.**
- Run Test → Wait for result

Example : test for CropHelper (sends remainder for visit)