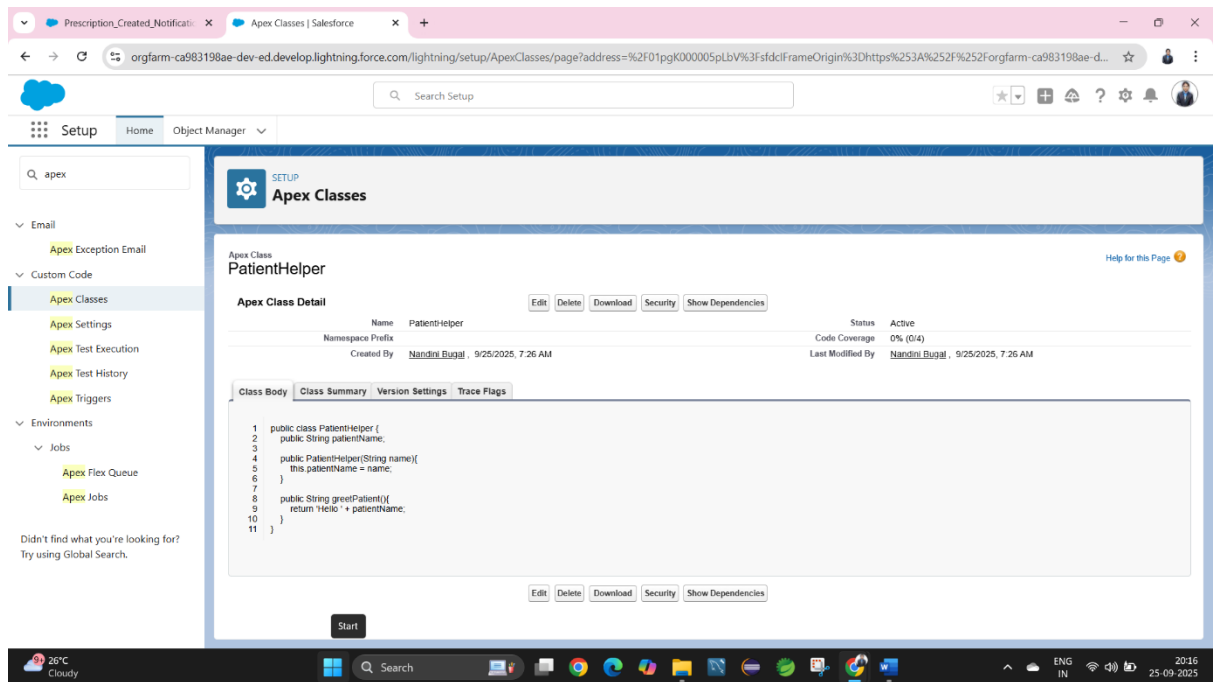


# MediAid Healthcare Project

## Phase 5: Apex Programming (Developer)

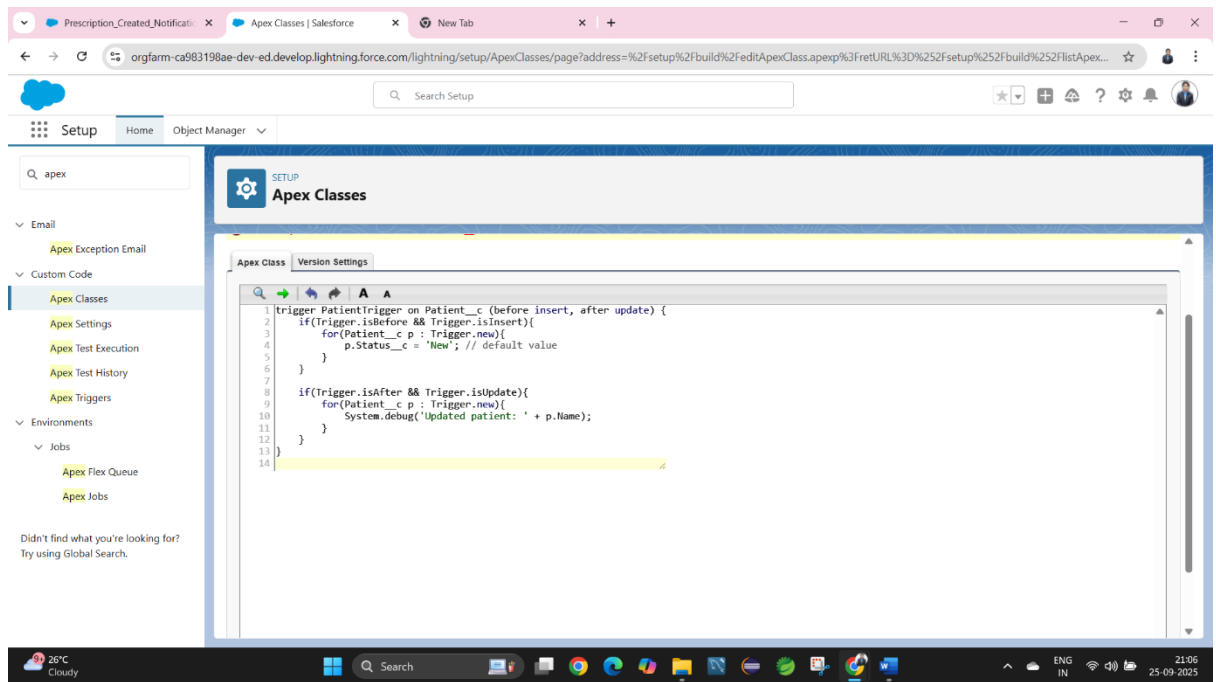
### 1. Classes & Objects

- Apex classes are templates for objects; contain **variables, constructors, and methods**.



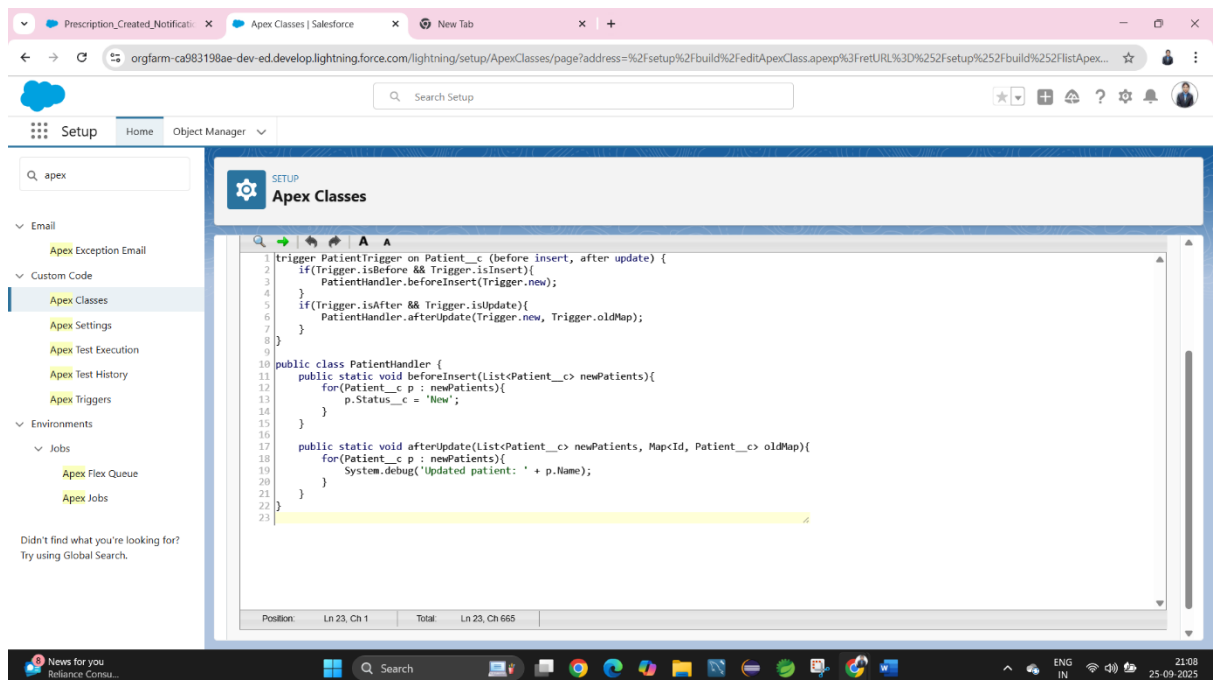
### 2. Apex Triggers (before/after insert/update/delete)

- Triggers execute **before or after** DML operations.



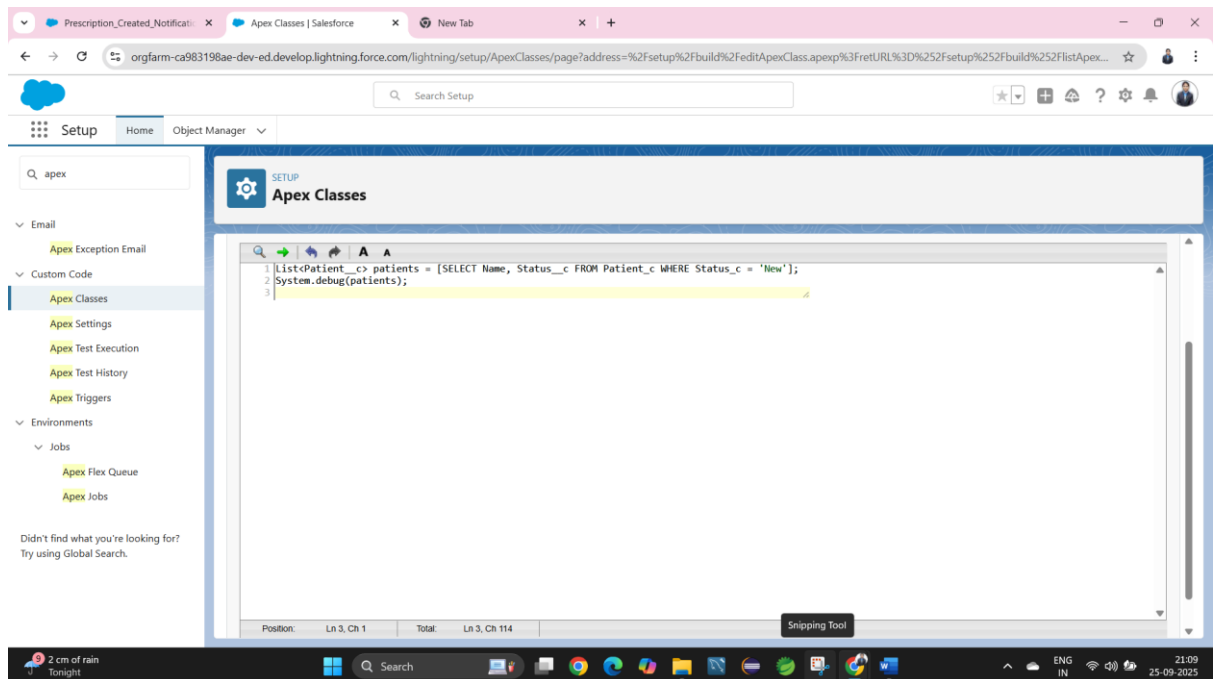
### 3. Trigger Design Pattern

- Separates logic from trigger into a **handler class**.
- Makes code **clean, reusable, and maintainable**.



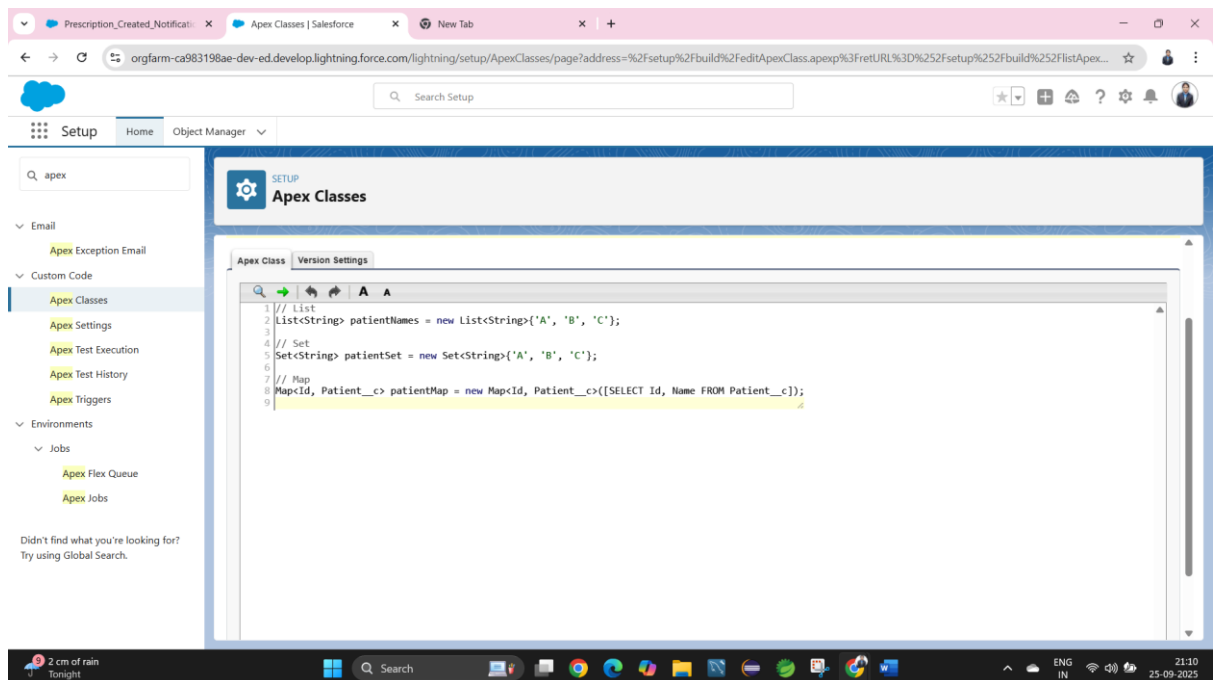
### 4. SOQL & SOSL

- **SOQL (Salesforce Object Query Language)** → Query records.
- **SOSL (Salesforce Object Search Language)** → Search across multiple objects.



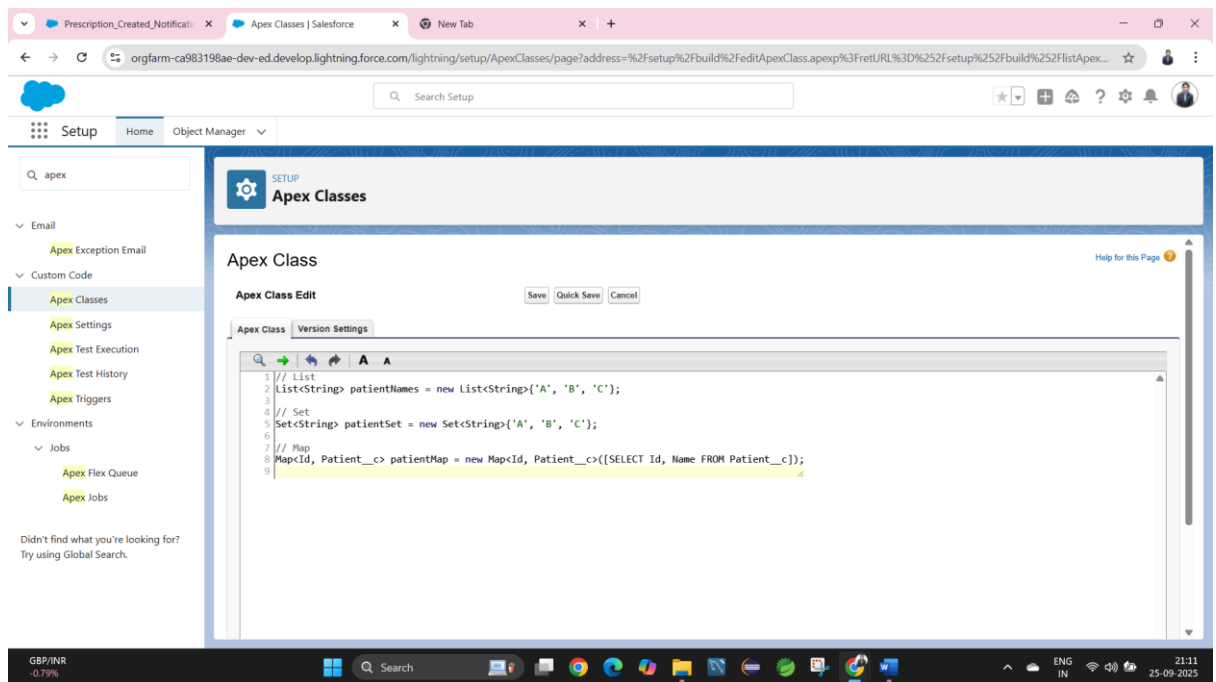
## 5. Collections (List, Set, Map)

- Apex supports **List, Set, and Map** for bulk operations.



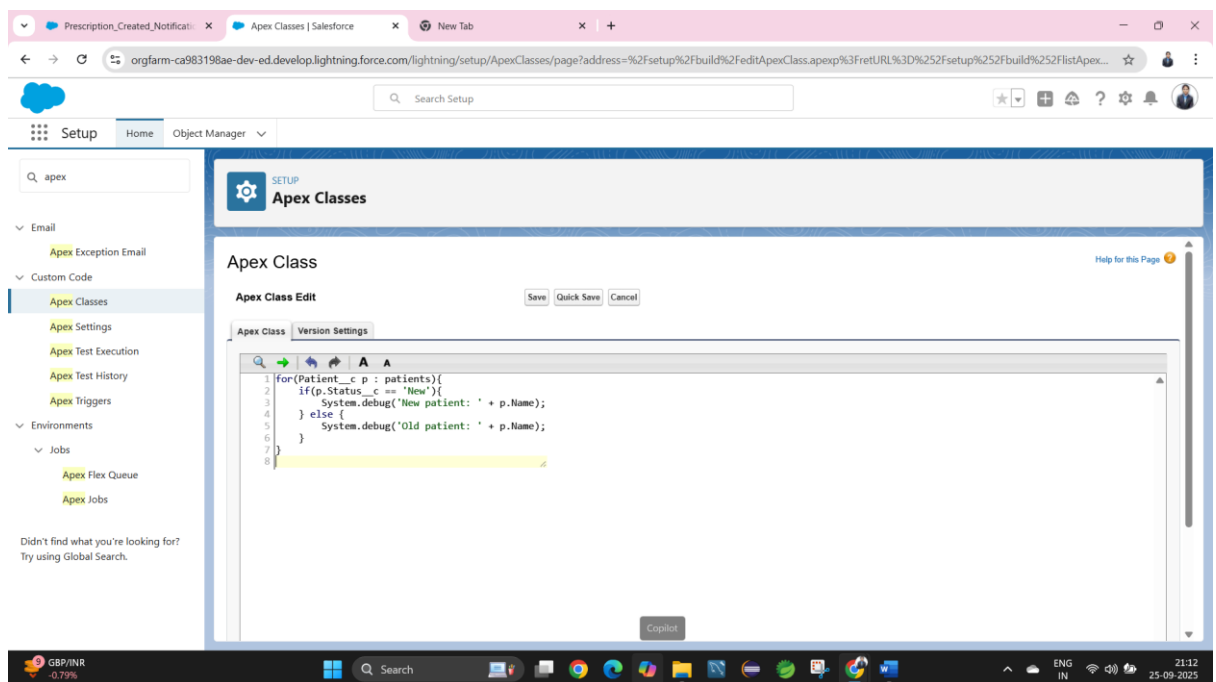
## 6. Control Statements

- Use **if-else, for, while, switch** for conditional logic.



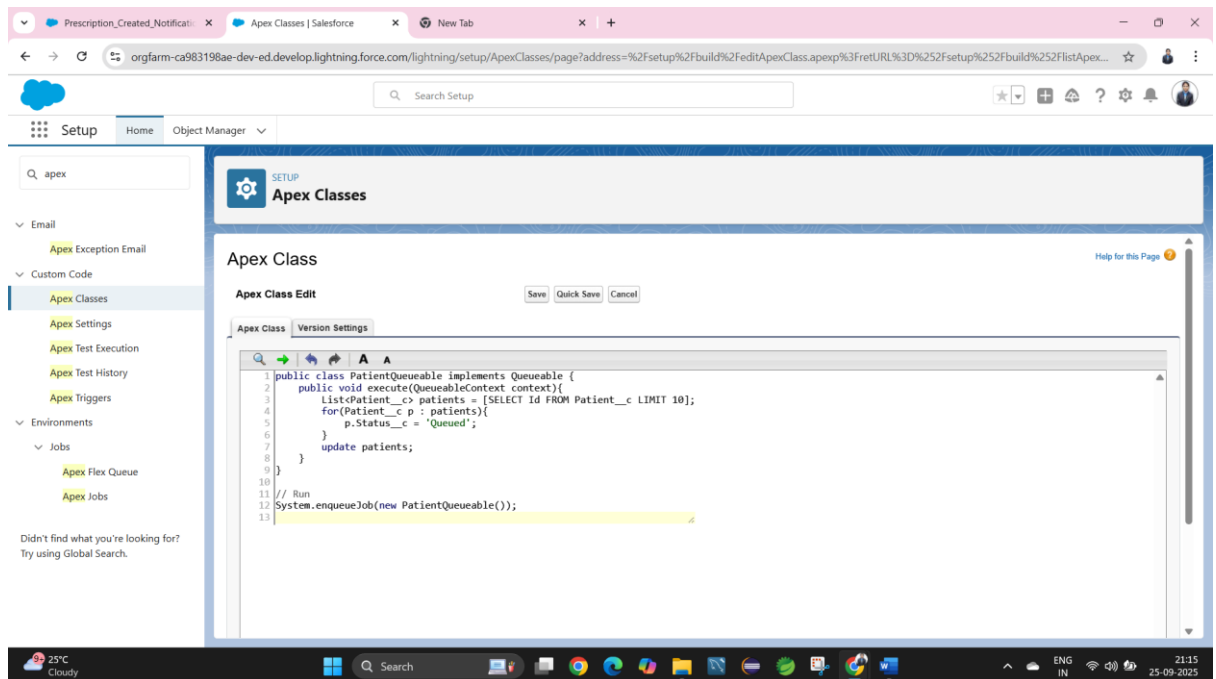
## 7. Batch Apex

- Processes **large records asynchronously**.
- Implement `Database.Batchable<SObject>` interface.



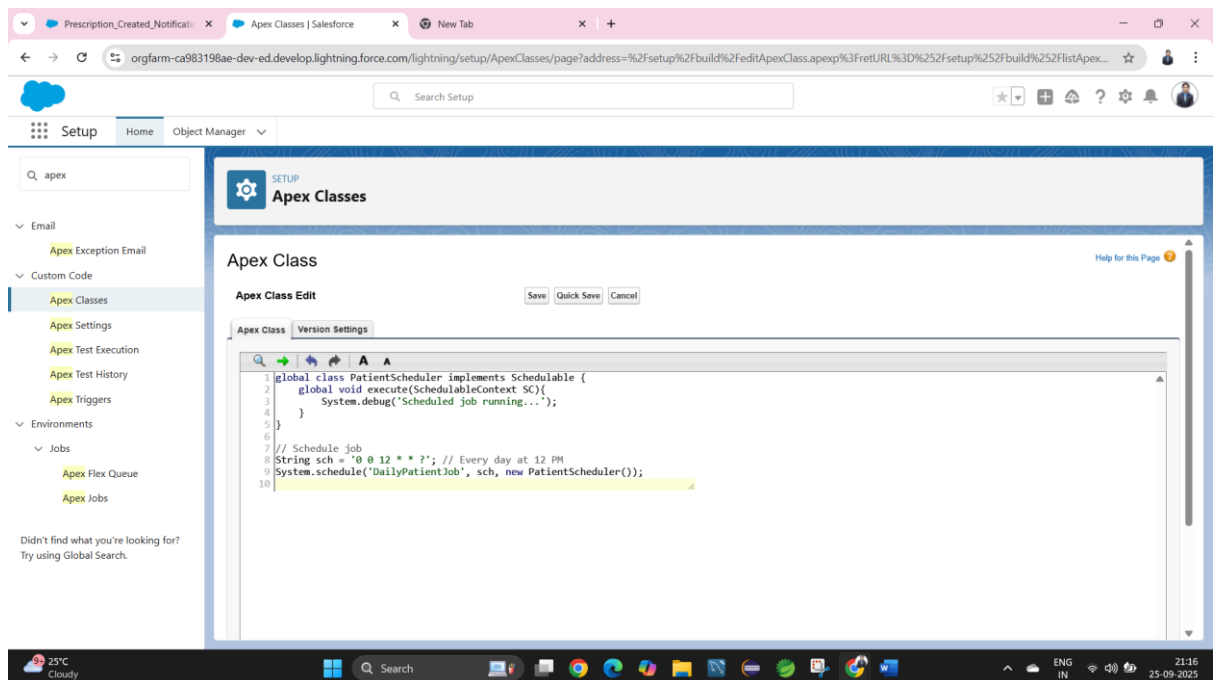
## 8. Queueable Apex

- Similar to Batch Apex but simpler for **asynchronous jobs**.



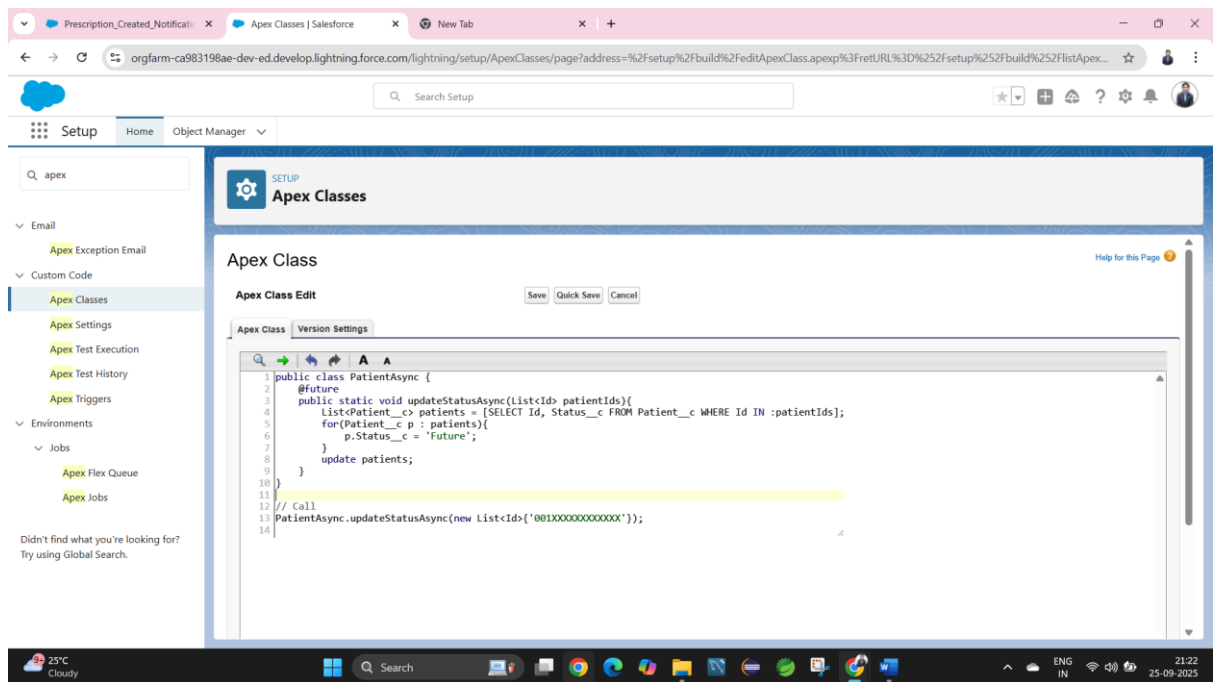
## 9. Scheduled Apex

- Schedule Apex classes to run at a specific **time or interval**.



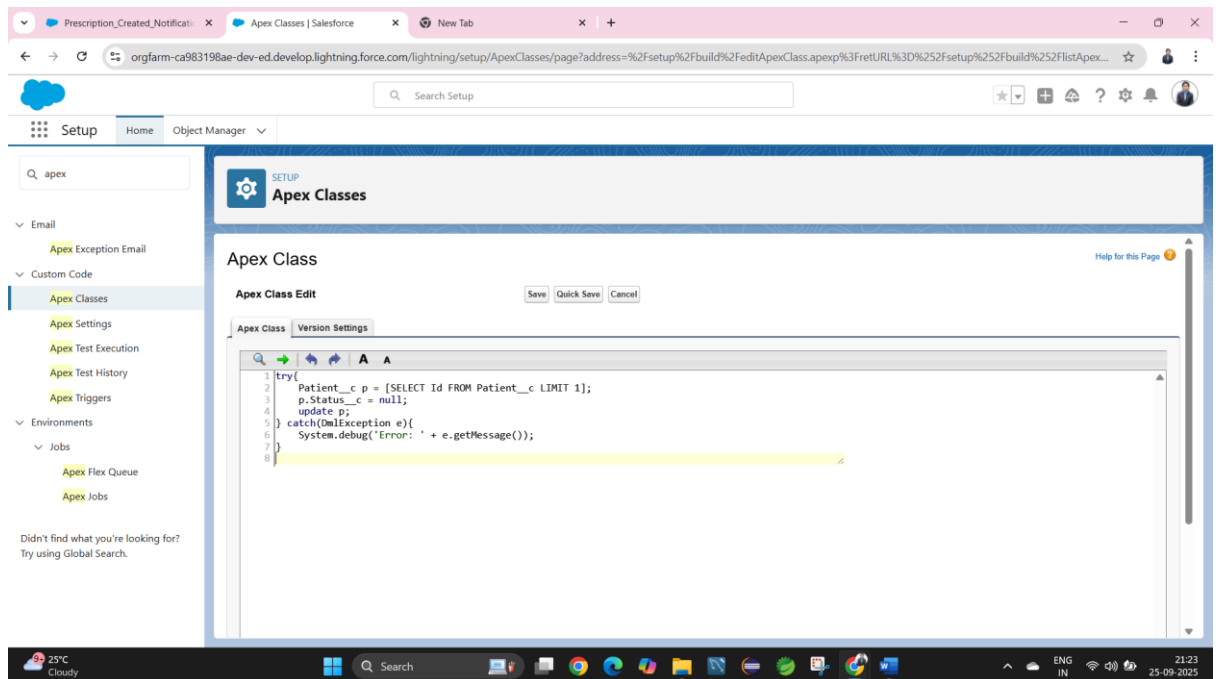
## 10. Future Methods

- Executes **methods asynchronously**.



## 11. Exception Handling

- Use try-catch blocks to handle **errors gracefully**.



## 12. Test Classes

- Mandatory for **deployment**; must cover  $\geq 75\%$  of Apex code.

Prescription\_Created\_Notificati...Apex Classes | SalesforceNew Tab

orgfarm-ca983198ae-dev-ed.develop.lightning.force.com/lightning/setup/ApexClasses/page?address=%2Fsetup%2Fbuild%2FeditApexClass.apexp%3FretURL%3D%252Fsetup%252Fbuild%252FlistApex...

Search Setup

SetupHomeObject Manager

apex

Email

Apex Exception Email

Custom Code

Apex Classes

Apex Settings

Apex Test Execution

Apex Test History

Apex Triggers

Environments

Jobs

Apex Flex Queue

Apex Jobs

Didn't find what you're looking for?  
Try using Global Search.

Apex Classes

Apex Class

Apex Class Edit

SaveQuick SaveCancel

Apex ClassVersion Settings

```
1 @isTest
2 public class PatientTest {
3     @isTest
4     static void testPatient(){
5         Patient__c p = new Patient__c(Name='Test');
6         insert p;
7         System.assert(p.Id != null);
8     }
9 }
10
```

25°C Cloudy

Search

ENG IN

21:23 25-09-2025