Phase 5: Apex Programming (Developer)

Goal:

- Match youth to jobs based on skills using Apex.
- Automatically create Interview__c records.
- Handle bulk data safely and meet Salesforce deployment standards.

Step 1: Apex Class — JobMatchingController

Purpose: Perform matching and create interviews programmatically.

Steps to create Apex Class:

- 1. Click Setup (○) → Quick Find → Apex Classes → New.
- 2. Copy and paste the JobMatchingController code below.
- 3. Click Save.

Code Logic Overview:

- Method 1: getMatchedJobs(youthId)
 - Fetch youth skills.
 - o Find jobs requiring those skills.
 - o Return matched jobs (up to 100 records).
- Method 2: createInterview(youthId, jobId, interviewDateIso, interviewerId)
 - Converts ISO date string → Datetime.
 - Creates Interview__c record with Status__c = Scheduled.

Returns the created interview Id.

code works for these tasks. **Small improvement:** In AutoInterviewScheduler, query COUNT() inside a loop — for very large data, consider bulkifying (collect all youth + jobs, then insert interviews in one DML).



Step 2: Apex Test Class — JobMatchingControllerTest

Purpose: Ensure at least 75% coverage and test functionality.

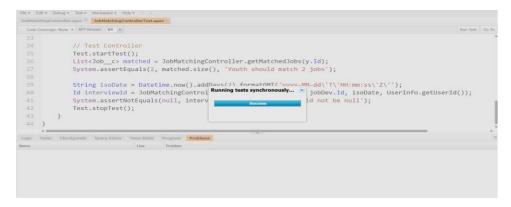
Steps to create Test Class:

- 1. Click Setup → Apex Classes → New.
- 2. Copy and paste the JobMatchingControllerTest code below.
- 3. Click Save.

Test Logic Overview:

- Creates test Skill_c, Youth_c, YouthSkill_c, Job_c, JobSkill_c.
- Tests getMatchedJobs() → asserts correct number of jobs.

Tests createInterview() → asserts interview Id is not null.



Step 3: Execute Apex for Individual Youth

Steps:

- 1. Open **Developer Console** → **Execute Anonymous Window**.
- 2. Run this snippet (replace YID-0010 with actual youth auto-number):

This works — it will create an interview for the first matched job.

Step 4: Scheduler — AutoInterviewScheduler

Purpose: Automatically create interviews for all youth.

Steps to schedule:

- 1. Click Setup → Apex Classes → Schedule Apex → New.
- 2. Choose AutoInterviewScheduler class.
- 3. Set frequency (daily/hourly) and start/end dates.

4. Click Save to activate scheduler.

Logic:

- Loops through all youth → gets matched jobs → creates interview if none exists.
- System.debug() logs each creation.

