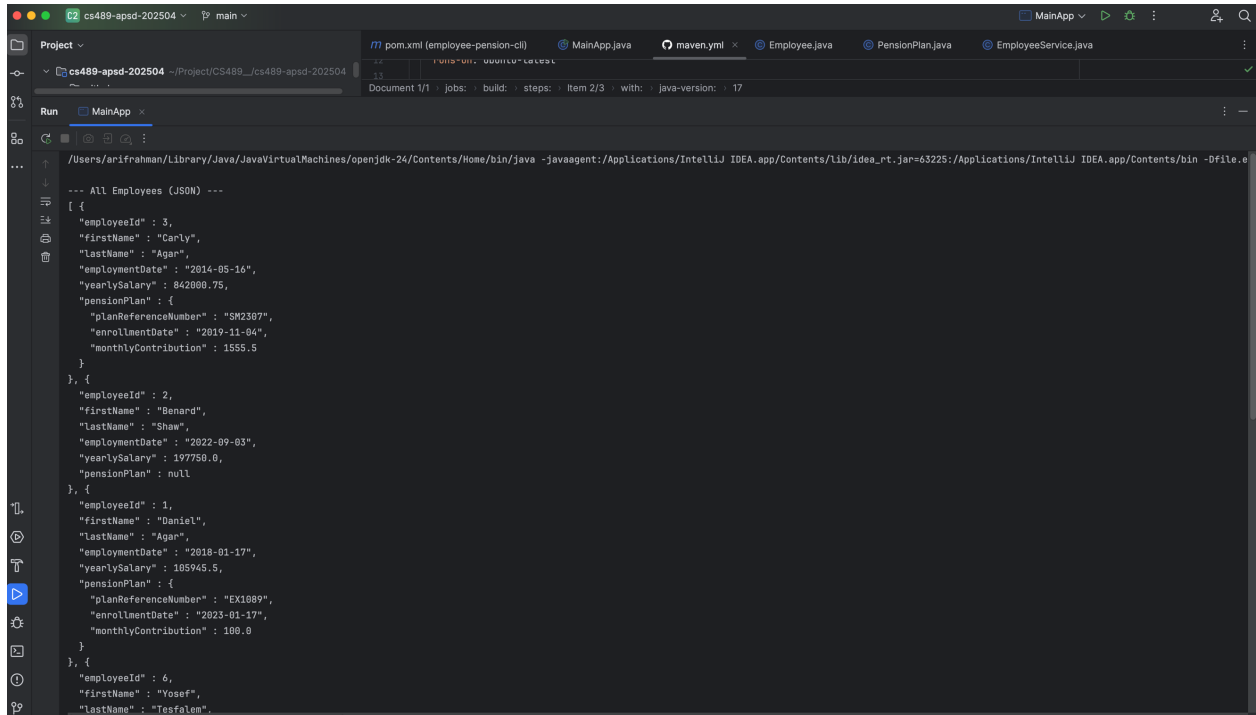


Lab 01b:

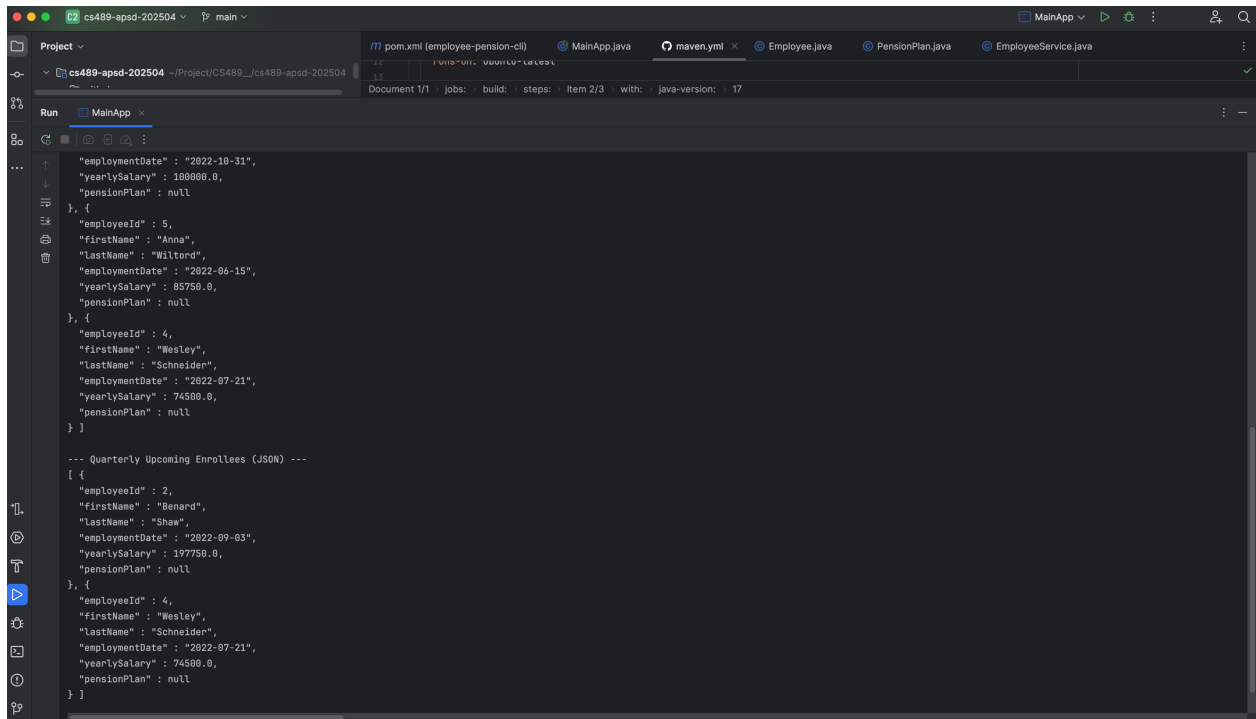
Task 1:



The screenshot shows an IDE window with a project named "cs489-apsd-202504". The "Run" tab is active, displaying the output of the application. The output shows a JSON array of employee data. The IDE interface includes a top toolbar with icons for running and debugging, a project view on the left, and a file explorer on the right. The output window shows the following JSON data:

```
--- All Employees (JSON) ---
[
  {
    "employeeId" : 3,
    "firstName" : "Carly",
    "lastName" : "Apar",
    "employmentDate" : "2014-05-16",
    "yearlySalary" : 842000.75,
    "pensionPlan" : {
      "planReferenceNumber" : "SM2307",
      "enrollmentDate" : "2019-11-04",
      "monthlyContribution" : 1555.5
    }
  },
  {
    "employeeId" : 2,
    "firstName" : "Benard",
    "lastName" : "Shaw",
    "employmentDate" : "2022-09-03",
    "yearlySalary" : 197750.0,
    "pensionPlan" : null
  },
  {
    "employeeId" : 1,
    "firstName" : "Daniel",
    "lastName" : "Apar",
    "employmentDate" : "2018-01-17",
    "yearlySalary" : 185945.5,
    "pensionPlan" : {
      "planReferenceNumber" : "EX1089",
      "enrollmentDate" : "2023-01-17",
      "monthlyContribution" : 100.0
    }
  },
  {
    "employeeId" : 6,
    "firstName" : "Yosef",
    "lastName" : "Tesfalem"
  }
]
```

Task 2:



The screenshot shows an IDE window for a project named "cs489-apsd-202504". The main editor displays a JSON file named "Quarterly Upcoming Enrollees (JSON) ---". The JSON content is as follows:

```
{
  "employees": [
    {
      "employeeId": 5,
      "firstName": "Anna",
      "lastName": "Wiltord",
      "employmentDate": "2022-06-15",
      "yearlySalary": 85750.0,
      "pensionPlan": null
    },
    {
      "employeeId": 4,
      "firstName": "Wesley",
      "lastName": "Schneider",
      "employmentDate": "2022-07-21",
      "yearlySalary": 74500.0,
      "pensionPlan": null
    }
  ]
}
```

The IDE interface includes a top toolbar with icons for file operations, a project explorer on the left, and a run/debug console at the bottom. The status bar at the bottom indicates the current document is "Document 1/1" and the build is "build: steps: Item 2/3 with: java-version: 17".

Task 3:

arahman6

cs489-apsd-202504

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Code

Issues

Pull requests

Actions

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Settings

Java CI with Maven

✓

Add parent pom.xml to support multi-module Maven build #3

Re-run all jobs

Summary

Jobs

Run details

Usage

Workflow file

build

succeeded 16 minutes ago in 10s

Search logs

>

Set up job

1s

>

Checkout code

0s

>

Set up JDK 17

1s

>

Build employee-pension-cii only

5s

>

Post Set up JDK 17

0s

>

Post Checkout code

0s

>

Complete job

0s