**Microservices - Account and Loan**

**Hands-on Microservices Assignment**

Create two independent Spring Boot microservices: one for handling accounts and another for handling loans.

Each microservice is a separate Maven project running on different ports.

Account Microservice:

1. Go to D: drive and create a folder with employee ID.
2. Inside that folder, create another folder named 'microservices'.
3. Open https://start.spring.io/
   * Group: com.cognizant
   * Artifact: account
   * Dependencies: Spring Web, Spring Boot DevTools
4. Click Generate and download the zip.
5. Extract the 'account' folder into the 'microservices' folder.
6. Open VS Code and open the 'account' folder.
7. Open terminal in VS Code and run: mvn clean package
8. In src/main/java, create a controller class with the following endpoint:
   * Method: GET
   * Endpoint: /accounts/{number}
   * Sample response:

{

"number": "00987987973432",

"type": "savings", "balance": 234343

}

1. Run the application and test the endpoint using browser or Postman (port 8080).

Loan Microservice:

1. Repeat the steps as above with Artifact: loan.
2. Extract 'loan' folder into the same 'microservices' folder.
3. Open the 'loan' folder in a new VS Code window.
4. In src/main/java, create a controller class with the following endpoint:
   * Method: GET
   * Endpoint: /loans/{number}
   * Sample response:

{

"number": "H00987987972342",

"type": "car", "loan": 400000,

"emi": 3258,

"tenure": 18

}

1. Open terminal and run: mvn clean package
2. Add the following line in application.properties to change port: server.port=8081
3. Run the loan service and test using port 8081.

Now both microservices are running independently on ports 8080 and 8081.