**SUPERSET ID:6426263**

**WEEK 5**

**MICROSERVICES**

1. **Creating Microservices for account and loan**

We are creating two independent Spring Boot microservices:

* One for Account operations.
* One for Loan operations.

Each service is a separate Maven project with its own controller and runs on different ports (8080 and 8081 respectively). These microservices return dummy JSON data without any database connection.

**Code:**

**Account Microservice**

**Controller Code (AccountController.java)**

package com.cognizant.account.controller;

import org.springframework.web.bind.annotation.\*;

@RestController

@RequestMapping("/accounts")

public class AccountController {

@GetMapping("/{number}")

public Account getAccount(@PathVariable String number) {

return new Account(number, "savings", 234343);

}

class Account {

private String number;

private String type;

private double balance;

public Account(String number, String type, double balance) {

this.number = number;

this.type = type;

this.balance = balance;

}

public String getNumber() { return number; }

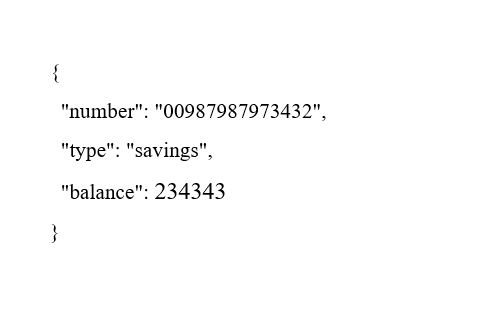
public String getType() { return type; }

public double getBalance() { return balance; }

}

}

**OUTPUT:**

****

**Loan Microservice**

**Controller Code (LoanController.java):**

package com.cognizant.loan.controller;

import org.springframework.web.bind.annotation.\*;

@RestController

@RequestMapping("/loans")

public class LoanController {

@GetMapping("/{number}")

public Loan getLoan(@PathVariable String number) {

return new Loan(number, "car", 400000, 3258, 18);

}

class Loan {

private String number;

private String type;

private double loan;

private int emi;

private int tenure;

public Loan(String number, String type, double loan, int emi, int tenure) {

this.number = number;

this.type = type;

this.loan = loan;

this.emi = emi;

this.tenure = tenure;

}

public String getNumber() { return number; }

public String getType() { return type; }

public double getLoan() { return loan; }

public int getEmi() { return emi; }

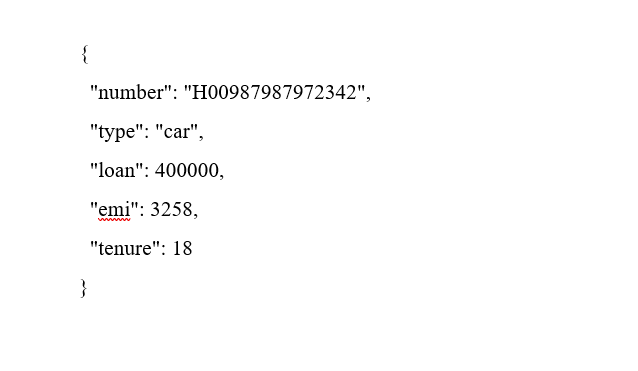
public int getTenure() { return tenure; }

}

}

**OUTPUT:**

****

****