WEEK 5 - Microservices with Spring Boot 3 and Spring Cloud

Creating Microservices for account and loan

Src/main/java/com/cognizant/account/controller/AccountController.java

```java
package com.cognizant.account.controller;

import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.PathVariable;
import org.springframework.web.bind.annotation.RestController;

import java.util.HashMap;
import java.util.Map;

@RestController
public class AccountController {

    private static final Logger LOGGER =
LoggerFactory.getLogger(AccountController.class);

    @GetMapping("/accounts/{number}")
    public Map<String, Object> getAccount(@PathVariable String number) {
        LOGGER.info("Start: getAccount()");

        Map<String, Object> response = new HashMap<>();
        response.put("number", number);
```

```java
        response.put("type", "savings");

        response.put("balance", 234343);


        LOGGER.info("End: getAccount()");

        return response;

    }

}
```

```json
{
  "number": "00987987973432",
  "type": "savings",
  "balance": 234343
}
```

src/main/java/com/cognizant/loan/controller/LoanController.java

```java
package com.cognizant.loan.controller;


import org.slf4j.Logger;

import org.slf4j.LoggerFactory;

import org.springframework.web.bind.annotation.GetMapping;

import org.springframework.web.bind.annotation.PathVariable;

import org.springframework.web.bind.annotation.RestController;


import java.util.HashMap;

import java.util.Map;


@RestController
public class LoanController {


    private static final Logger LOGGER = LoggerFactory.getLogger(LoanController.class);
```

```java
@GetMapping("/loans/{number}")
public Map<String, Object> getLoan(@PathVariable String number) {
    LOGGER.info("Start: getLoan()");


    Map<String, Object> response = new HashMap<>();
    response.put("number", number);
    response.put("type", "car");
    response.put("loan", 400000);
    response.put("emi", 3258);
    response.put("tenure", 18);


    LOGGER.info("End: getLoan()");
    return response;
    }
}
```

```json
{
  "number": "H009987987972342",
  "type": "car",
  "loan": 400000,
  "emi": 3258,
  "tenure": 18
}
```