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

* 1. **Code:**

**Account Microservice:**

**AccountServiceApplication.java:**

package com.cognizant.accountservice;

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

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

import java.util.Map;

@SpringBootApplication

@RestController

@RequestMapping("/accounts")

public class AccountServiceApplication {

public static void main(String[] args) {

SpringApplication.run(AccountServiceApplication.class, args);

}

@GetMapping("/{number}")

public Map<String, Object> getAccountDetails(@PathVariable String number) {

return Map.of(

"number", number,

"type", "savings",

"balance", 234343

);

}

}

**application.properties:**

server.port=8080

**Loan Microservice:**

**LoanServiceApplication.java:**

package com.cognizant.loanservice;

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

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

import java.util.Map;

@SpringBootApplication

@RestController

@RequestMapping("/loans")

public class LoanServiceApplication {

public static void main(String[] args) {

SpringApplication.run(LoanServiceApplication.class, args);

}

@GetMapping("/{number}")

public Map<String, Object> getLoanDetails(@PathVariable String number) {

return Map.of(

"number", number,

"type", "car",

"loan", 400000,

"EMI", 3258,

"tenure", 18

);

}

}

**application.properties:**

server.port=8081

* 1. **Output:**

**Account:**

**URL:**

<http://localhost:8080/accounts/00987987973432>

**Result:**

{

"number": "00987987973432",

"type": "savings",

"balance": 234343

}

**Loan:**

**URL:**

<http://localhost:8081/loans/H00987987972342>

**Result:**

{

"number": "H00987987972342",

"type": "car",

"loan": 400000,

"EMI": 3258,

"tenure": 18

}