**Microservices with Spring Boot 3 and Spring Cloud**

**Exercise 1: Creating Microservices for account and loan:**

//accountcontriller.java

package com.cognizant.account.controller;

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 {

@GetMapping("/accounts/{number}")

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

Map<String, Object> account = new HashMap<>();

account.put("number", number);

account.put("type", "savings");

account.put("balance", 234343);

return account;

}

}

//Json.java

{

"number": "00987987973432",

"type": "savings",

"balance": 234343

}

//LoanController.java

{

"number": "00987987973432",

"type": "savings",

"balance": 234343

}

Output:

{

"number": "H00987987972342",

"type": "car",

"loan": 400000,

"emi": 3258,

"tenure": 18

}

**Exercise 2: Create Eureka Discovery Server and register microservices:**

//ServerApplication.java

package com.cognizant.eurekadiscoveryserver;

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

import org.springframework.cloud.netflix.eureka.server.EnableEurekaServer;

@SpringBootApplication

@EnableEurekaServer

public class EurekaDiscoveryServerApplication {

public static void main(String[] args) {

SpringApplication.run(EurekaDiscoveryServerApplication.class, args);

}

}

//AccountApplication.java

package com.cognizant.account;

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

import org.springframework.cloud.client.discovery.EnableDiscoveryClient;

@SpringBootApplication

@EnableDiscoveryClient

public class AccountApplication {

public static void main(String[] args) {

SpringApplication.run(AccountApplication.class, args);

}

}

//GreetController.java

package com.cognizant.greetservice.controller;

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

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

@RestController

public class GreetController {

@GetMapping("/greet")

public String greet() {

return "Hello World";

}

}

Ouput:

Hello World