**Micro-Services with Spring Boot 3 and Spring cloud**

**Microservices with API gateway:**

Creating microservices for account and loan:

Account.java

package com.cognizant.account.model;

public class Account {

private String number;

private String type;

private double balance;

public Account() {}

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;

}

public void setNumber(String number) {

this.number = number;

}

public void setType(String type) {

this.type = type;

}

public void setBalance(double balance) {

this.balance = balance;

}

}

AccountController.java

package com.cognizant.account.controller;

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

import com.cognizant.account.model.Account;

@RestController

public class AccountController {

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

public Account getAccount(@PathVariable String number) {

return new Account(number, "savings", 234343.00);

}

}

Loan.java

package com.cognizant.loan.model;

public class Loan {

private String number;

private String type;

private double loan;

private double emi;

private int tenure;

public Loan() {}

public Loan(String number, String type, double loan, double 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 double getEmi() {

return emi;

}

public int getTenure() {

return tenure;

}

public void setNumber(String number) {

this.number = number;

}

public void setType(String type) {

this.type = type;

}

public void setLoan(double loan) {

this.loan = loan;

}

public void setEmi(double emi) {

this.emi = emi;

}

public void setTenure(int tenure) {

this.tenure = tenure;

}

}

LoanController.java

package com.cognizant.loan.controller;

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

import com.cognizant.loan.model.Loan;

@RestController

public class LoanController {

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

public Loan getLoan(@PathVariable String number) {

return new Loan(number, "car", 400000.00, 3258.00, 18);

}

}