**Creating Microservices for account and loan**

**Account Microservice:-**

**1. Project Setup**

(Since you've already done this, skip if complete)

* Use **Spring Initializr** (<https://start.spring.io>)  
   **Group:** com.cognizant  
   **Artifact:** account  
   **Dependencies:** Spring Web, Spring Boot DevTools
* Download, extract, and place in:  
   D:\<your\_emp\_id>\microservices\account

## **2. Build & Import**

Run in Command Prompt:  
  
cd D:\<your\_emp\_id>\microservices\account

mvn clean package

* Open Eclipse → **File > Import > Maven > Existing Maven Projects** → Select the account folder.

## **3. Add the Controller**

In src/main/java/com/cognizant/account, create **AccountController.java**:

package com.cognizant.account;

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

@RestController

@RequestMapping("/accounts")

public class AccountController {

@GetMapping("/{number}")

public Account getAccountDetails(@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; }

}

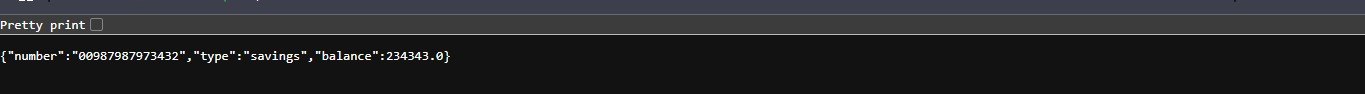
## **4. Run the Microservice**

1. Right-click **AccountApplication.java** → Run As → Java Application.
2. Wait for:  
    Tomcat started on port(s): 8080

**5. Test the API:-**

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

OUTPUT:-



**Loan Microservice:-**

### **1.Create LoanController:-**

In src/main/java/com/cognizant/loan, create a new file named LoanController.java:

package com.cognizant.loan;

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

@RestController

@RequestMapping("/loans")

public class LoanController {

@GetMapping("/{number}")

public Loan getLoanDetails(@PathVariable String number) {

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

}

}

class Loan {

private String number;

private String type;

private double loan;

private double emi;

private int tenure;

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; }

}

### **2.Run Loan Microservice**

* Right-click LoanApplication.java → **Run As > Java Application**
* Console should say:  
  Tomcat started on port(s): 8081

### **3.Test Loan Microservice**

Open browser or Postman and paste

http://localhost:8081/loans/H00987987972342

OUTPUT:-

