## HandsOn: Creating Microservices for account and loan

## Step 1 — Folder Structure:

- Created folder: D:\123456  
- Inside it, created microservices folder  
- Extracted Spring Initializr projects into:  
 - D:\123456\microservices\account  
 - D:\123456\microservices\loan

## Step 2 — Account Microservice Setup:

- Spring Initializr Configuration:  
 - Group: com.cognizant  
 - Artifact: account  
 - Dependencies: Spring Web, Spring Boot DevTools  
- Created Controller:

**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.Map;  
  
@RestController  
public class AccountController {  
  
 @GetMapping("/accounts/{number}")  
 public Map<String, Object> getAccountDetails(@PathVariable String number) {  
 return Map.of(  
 "number", number,  
 "type", "savings",  
 "balance", 234343  
 );  
 }  
}**

- Confirmed server.port=8080

- Built with: mvn clean package

- Verified endpoint: http://localhost:8080/accounts/00987987973432

## Step 3 — Loan Microservice Setup:

- Spring Initializr Configuration:  
 - Group: com.cognizant  
 - Artifact: loan  
 - Dependencies: Spring Web, Spring Boot DevTools  
- Created Controller:

**package com.cognizant.loan.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.Map;  
  
@RestController  
public class LoanController {  
  
 @GetMapping("/loans/{number}")  
 public Map<String, Object> getLoanDetails(@PathVariable String number) {  
 return Map.of(  
 "number", number,  
 "type", "car",  
 "loan", 400000,  
 "emi", 3258,  
 "tenure", 18  
 );  
 }  
}**

- Configured application.properties: server.port=8081

- Built with: mvn clean package

- Verified endpoint: <http://localhost:8081/loans/H00987987972342>

**Output:**



