Microservices with Spring Boot 3
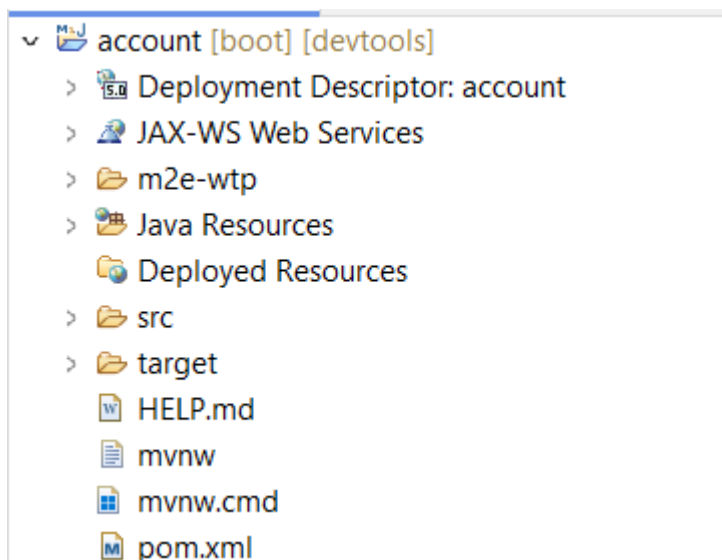
and Spring Cloud

Creating Microservices for account and loan:

Create directories:

- D:\<employee_id>\microservices\

Create account spring project in microservices folder:

Building the project:

Create AccountController.java in com.cognizant.account.controller package:

```java
package com.cognizant.account.controller;

import java.util.Map;

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

import java.util.HashMap;

@RestController
@RequestMapping("/accounts")
public class AccountController {

    @GetMapping("/{number}")
    public Map<String, Object> getAccount(@PathVariable String number) {
        Map<String, Object> response = new HashMap<>();
        response.put("number", number);
        response.put("type", "savings");
        response.put("balance", 234343);
        return response;
    }
}
```
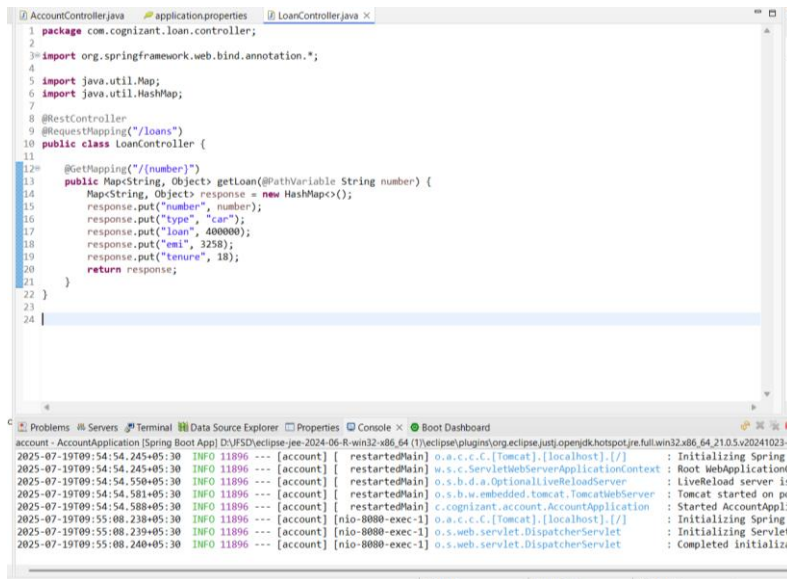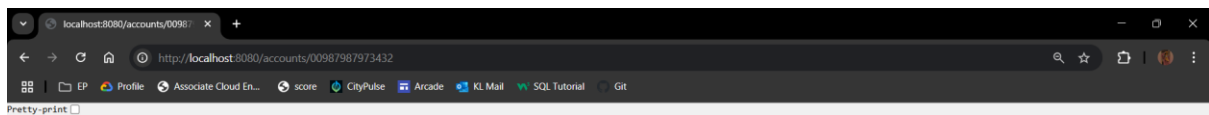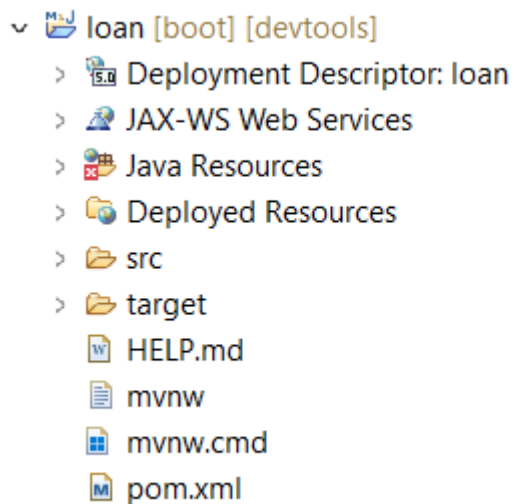
Output:

{"number":"00987987973432","balance":234343,"type":"savings"}

```java
package com.cognizant.loan.controller;

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

import java.util.Map;
import java.util.HashMap;

@RestController
@RequestMapping("/loans")
public class LoanController {

    @GetMapping("/{number}")
    public Map<String, Object> getLoan(@PathVariable String number) {
        Map<String, Object> response = new HashMap<>();
        response.put("number", number);
        response.put("type", "car");
        response.put("loan", 400000);
        response.put("emi", 3258);
        response.put("tenure", 18);
        return response;
    }
}
```
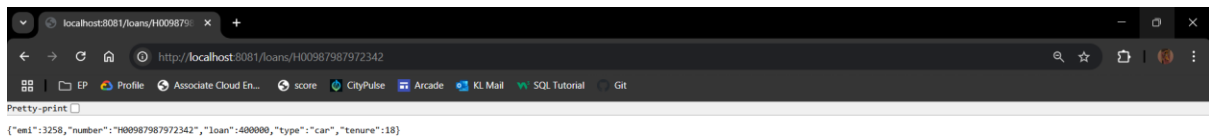
Create loan spring project in microservices folder:

```
v  loan [boot] [devtools]
   >  Deployment Descriptor: loan
   >  JAX-WS Web Services
   >  Java Resources
   >  Deployed Resources
   >  src
   >  target
      HELP.md
      mvnw
      mvnw.cmd
      pom.xml
```

Change port to 8081 in application.properties using:

server.port=8081

Create LoanController.java in com.cognizant.loan.controller package:

package com.cognizant.loan.controller;

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

import java.util.Map;

import java.util.HashMap;

@RestController

@RequestMapping("/loans")

public class LoanController {

  @GetMapping("/{number}")

```java
public Map<String, Object> getLoan(@PathVariable String number) {

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

    response.put("number", number);

    response.put("type", "car");

    response.put("loan", 400000);

    response.put("emi", 3258);

    response.put("tenure", 18);

    return response;

  }

}
```

Output:

{"emi":3258,"number":"H00987987972342","loan":400000,"type":"car","tenure":18}

Now we have two microservices running on different ports: