**WEEK-5: Microservices with Spring Boot 3 and Spring Cloud**

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

1.pom.xml:

<project xmlns="http://maven.apache.org/POM/4.0.0"

         xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

         xsi:schemaLocation="http://maven.apache.org/POM/4.0.0

                             http://maven.apache.org/xsd/maven-4.0.0.xsd">

    <modelVersion>4.0.0</modelVersion>

    <groupId>com.cognizant</groupId>

    <artifactId>account</artifactId>

    <version>1.0.0</version>

    <packaging>jar</packaging>

    <parent>

        <groupId>org.springframework.boot</groupId>

        <artifactId>spring-boot-starter-parent</artifactId>

        <version>3.2.0</version>

    </parent>

    <properties>

        <java.version>17</java.version>

        <spring-cloud.version>2023.0.1</spring-cloud.version>

    </properties>

    <dependencies>

        <dependency>

            <groupId>org.springframework.boot</groupId>

            <artifactId>spring-boot-starter-web</artifactId>

        </dependency>

        <dependency>

            <groupId>org.springframework.cloud</groupId>

            <artifactId>spring-cloud-starter-netflix-eureka-client</artifactId>

        </dependency>

    </dependencies>

    <dependencyManagement>

        <dependencies>

            <dependency>

                <groupId>org.springframework.cloud</groupId>

                <artifactId>spring-cloud-dependencies</artifactId>

                <version>${spring-cloud.version}</version>

                <type>pom</type>

                <scope>import</scope>

            </dependency>

        </dependencies>

    </dependencyManagement>

</project>

2.LoanController.java:

package com.cognizant.loan.controller;

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

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

    @RestController

    public class LoanController {

        @GetMapping("/loan")

        public String getLoan() {

            return "Loan service response";

        }

    }

3.AccountController.java:

package com.cognizant.account.controller;

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

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

    @RestController

    public class AccountController {

        @GetMapping("/account")

        public String getAccount() {

            return "Account service response";

        }

    }

4.LoanApplication.java:

package com.cognizant.loan;

    import org.springframework.boot.SpringApplication;

    import org.springframework.boot.autoconfigure.SpringBootApplication;

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

    @SpringBootApplication

    @EnableDiscoveryClient

    public class LoanApplication {

        public static void main(String[] args) {

            SpringApplication.run(LoanApplication.class, args);

        }

    }

5.applicationproperties.xml:

spring.application.name=loan-service

    eureka.client.service-url.defaultZone=http://localhost:8761/eureka

    server.port=8082

