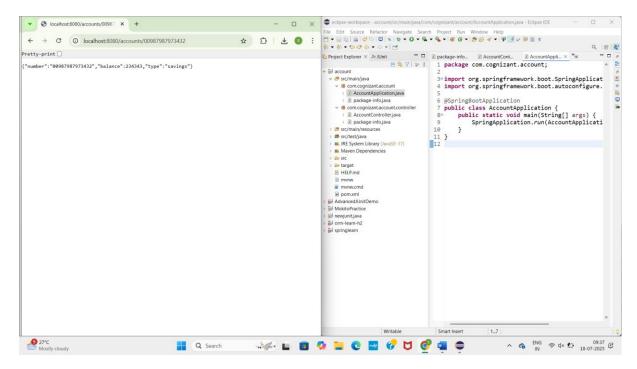
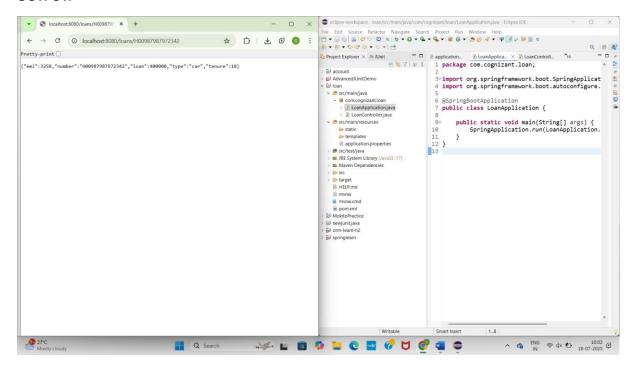
```
AccountApplication.java:
package com.cognizant.account;
import\ org. spring framework. boot. Spring Application;
import\ org. spring framework. boot. autoconfigure. Spring Boot Application;
@SpringBootApplication
public class AccountApplication {
  public static void main(String[] args) {
    SpringApplication.run(AccountApplication.class, args);
  }
}
AccountController.java:
package com.cognizant.account;
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
);
 }
```



#### LoanController.java:

```
package com.cognizant.loan;
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;
import java.util.HashMap;
@RestController
public class LoanController {
  @GetMapping("/loans/{number}")
  public Map<String, Object> getLoanDetails(@PathVariable String number) {
    Map<String, Object> loanDetails = new HashMap<>();
    loanDetails.put("number", number);
    loanDetails.put("type", "car");
    loanDetails.put("loan", 400000);
    loanDetails.put("emi", 3258);
    loanDetails.put("tenure", 18);
    return loanDetails;
  }
```

```
LoanApplication.java:
package com.cognizant.loan;
import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
@SpringBootApplication
public class LoanApplication {
   public static void main(String[] args) {
        SpringApplication.run(LoanApplication.class, args);
   }
}
```

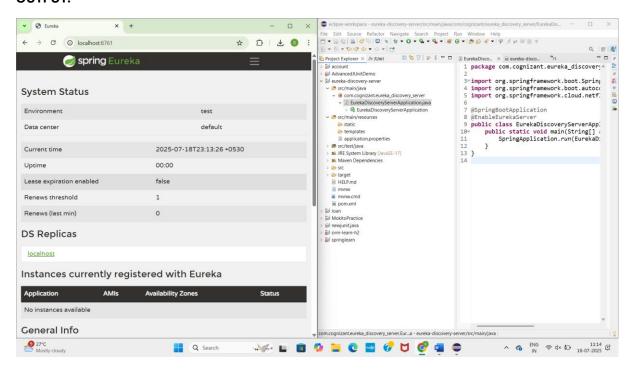


# EurekaDiscoveryServerApplication.java:

```
package com.cognizant.eureka_discovery_server;
import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
import org.springframework.cloud.netflix.eureka.server.EnableEurekaServer;
@SpringBootApplication
@EnableEurekaServer
```

```
public class EurekaDiscoveryServerApplication {
  public static void main(String[] args) {
    SpringApplication.run(EurekaDiscoveryServerApplication.class, args);
 }
}
pom.xml:
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
 <artifactId>eureka-discovery-server</artifactId>
<version>0.0.1-SNAPSHOT</version>
 <packaging>jar</packaging>
 <name>eureka-discovery-server</name>
 <description>Eureka Discovery Server</description>
 <parent>
  <groupId>org.springframework.boot</groupId>
  <artifactId>spring-boot-starter-parent</artifactId>
  <version>3.1.5</version>
  <relativePath/> <!-- lookup parent from repository -->
 </parent>
 cproperties>
  <java.version>17</java.version>
  <spring-cloud.version>2022.0.4</pring-cloud.version>
 </properties>
 <dependencies>
  <dependency>
   <groupId>org.springframework.cloud
   <artifactId>spring-cloud-starter-netflix-eureka-server</artifactId>
```

```
</dependency>
<dependency>
 <groupId>org.springframework.boot
 <artifactId>spring-boot-starter-web</artifactId>
</dependency>
<dependency>
 <groupId>org.springframework.boot
 <artifactId>spring-boot-devtools</artifactId>
 <scope>runtime</scope>
 <optional>true</optional>
</dependency>
<dependency>
 <groupId>org.springframework.boot</groupId>
 <artifactId>spring-boot-starter-test</artifactId>
 <scope>test</scope>
</dependency>
</dependencies>
<dependencyManagement>
<dependencies>
 <dependency>
  <groupId>org.springframework.cloud
  <artifactId>spring-cloud-dependencies</artifactId>
  <version>${spring-cloud.version}</version>
  <type>pom</type>
  <scope>import</scope>
 </dependency>
</dependencies>
</dependencyManagement>
<build>
<plugins>
 <plugin>
```



### loan/pom.xml:

```
<?xml version="1.0" encoding="UTF-8"?>
cproject 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
    https://maven.apache.org/xsd/maven-4.0.0.xsd">
    <modelVersion>4.0.0</modelVersion>
    <groupId>com.cognizant</groupId>
    <artifactId>loan</artifactId>
    <version>0.0.1-SNAPSHOT</version>
    <name>loan</name>
    <description>Loan Microservice</description>
```

```
<packaging>jar</packaging>
<parent>
  <groupId>org.springframework.boot</groupId>
  <artifactId>spring-boot-starter-parent</artifactId>
  <version>3.1.5</version>
  <relativePath/> <!-- lookup parent from repository -->
</parent>
cproperties>
  <java.version>17</java.version>
  <spring-cloud.version>2022.0.4/spring-cloud.version>
</properties>
<dependencies>
  <!-- Spring Boot Web -->
  <dependency>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-web</artifactId>
  </dependency>
  <!-- Eureka Client -->
  <dependency>
    <groupId>org.springframework.cloud
    <artifactId>spring-cloud-starter-netflix-eureka-client</artifactId>
  </dependency>
  <!-- DevTools (for auto-restart) -->
  <dependency>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-devtools</artifactId>
    <scope>runtime</scope>
    <optional>true</optional>
  </dependency>
  <!-- Test -->
  <dependency>
```

```
<groupId>org.springframework.boot</groupId>
      <artifactId>spring-boot-starter-test</artifactId>
      <scope>test</scope>
    </dependency>
  </dependencies>
  <dependencyManagement>
    <dependencies>
      <dependency>
        <groupId>org.springframework.cloud
        <artifactId>spring-cloud-dependencies</artifactId>
        <version>${spring-cloud.version}</version>
        <type>pom</type>
        <scope>import</scope>
      </dependency>
    </dependencies>
  </dependencyManagement>
  <build>
    <plugins>
      <!-- Spring Boot Maven Plugin -->
      <plugin>
        <groupId>org.springframework.boot</groupId>
        <artifactId>spring-boot-maven-plugin</artifactId>
      </plugin>
    </plugins>
  </build>
</project>
LoanApplication.java:
package com.cognizant.loan;
import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
import org.springframework.cloud.client.discovery.EnableDiscoveryClient;
```

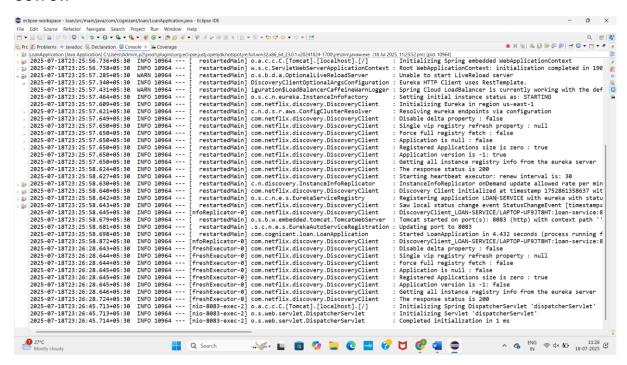
```
@SpringBootApplication
@EnableDiscoveryClient
public class LoanApplication {
   public static void main(String[] args) {
      SpringApplication.run(LoanApplication.class, args);
   }}
```

# application.properties of loan service:

spring.application.name=loan-service server.port=8083

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

#### **OUTPUT:**



#### GreetController.java:

@GetMapping("/greet")

```
package com.cognizant.greet_service;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.RestController;
@RestController
public class GreetController {
```

```
public String greet() {
    return "Hello World";
  }}
application.properties:
spring.application.name=greet-service
server.port=8080
eureka.client.service-url.defaultZone=http://localhost:8761/eureka
GreetServiceApplication.java:
package com.cognizant.greet_service;
import org.springframework.boot.SpringApplication;
import\ org. spring framework. boot. autoconfigure. Spring Boot Application;
import\ org. spring framework. cloud. client. discovery. Enable Discovery Client;
@SpringBootApplication
@EnableDiscoveryClient
public class GreetServiceApplication {
  public static void main(String[] args) {
    SpringApplication.run(GreetServiceApplication.class, args);
  }}
```

