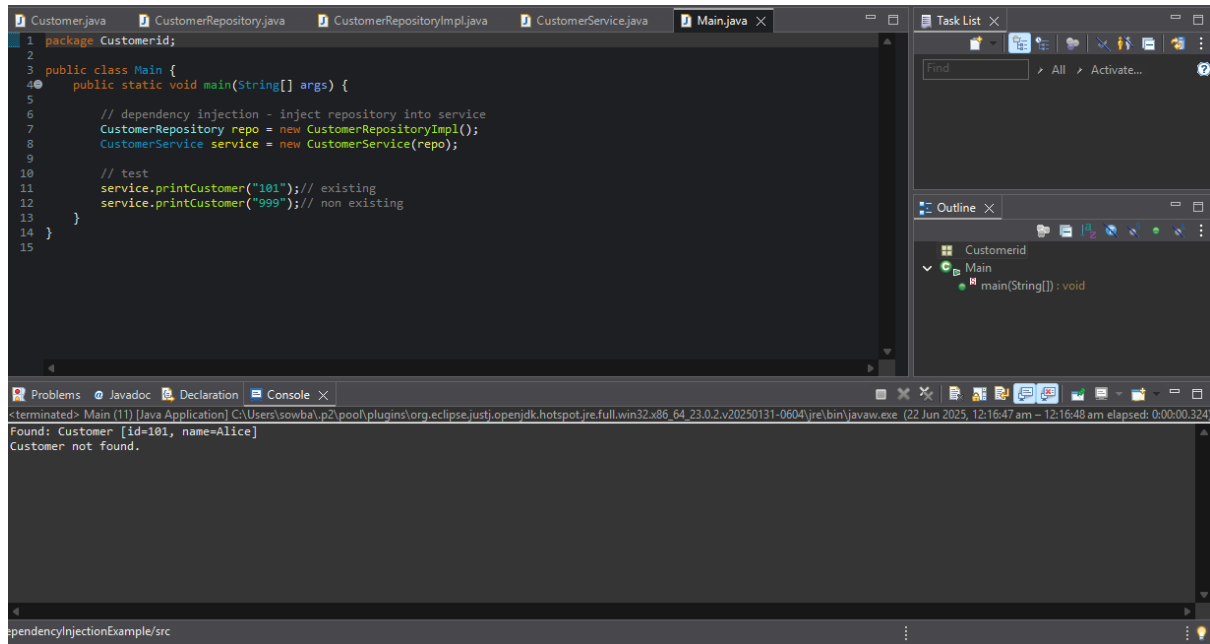


Exercise 11: Implementing Dependency Injection

OUTPUT:



```
1 package Customerid;
2
3 public class Main {
4     public static void main(String[] args) {
5
6         // dependency injection - inject repository into service
7         CustomerRepository repo = new CustomerRepositoryImpl();
8         CustomerService service = new CustomerService(repo);
9
10        // test
11        service.printCustomer("101");// existing
12        service.printCustomer("999");// non existing
13    }
14 }
15
```

Task List

Find

Outline

- Customerid
 - Main
 - main(String[]) : void

Problems Javadoc Declaration Console

```
<terminated> Main (11) [Java Application] C:\Users\sowba\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64_23.0.2.v20250131-0604\jre\bin\javaw.exe (22 Jun 2025, 12:16:47 am - 12:16:48 am elapsed: 0:00:00.324)
Found: Customer [id=101, name=Alice]
Customer not found.
```

dependencyInjectionExample/src

The Dependency Injection pattern allows the CustomerService to receive its dependencies (like CustomerRepository) externally. This improves flexibility, testability, and promotes loose coupling, making the application easier to maintain and scale.