**Exercise 11: Implementing Dependency Injection**

**Scenario:**

You are developing a customer management application where the service class depends on a repository class. Use Dependency Injection to manage these dependencies.

**Steps:**

1. **Create a New Java Project:**

A new Java project is created and is named as **DependencyInjectionExample**.

1. **Define Repository Interface:**

An interface **CustomerRepository is created** with methods like **findCustomerById()**.The code is provided in the wordpad.

1. **Implement Concrete Repository:**

A class **CustomerRepositoryImpl** is created that implements **CustomerRepository**. The code is provided in the wordpad.

1. **Define Service Class:**

A class **CustomerService is created** that depends on **CustomerRepository**. The code is provided in the wordpad.

1. **Implement Dependency Injection:**

A constructor injection is used to inject **CustomerRepository** into **CustomerService**. The code is provided in the wordpad.

1. **Test the Dependency Injection Implementation:**

A main class is created to demonstrate creating a **CustomerService** with **CustomerRepositoryImpl** and using it to find a customer. The code is provided in the wordpad.