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**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:

Create a new Java project named DependencyInjectionExample.

2. Define Repository Interface:

Create an interface CustomerRepository with methods like findCustomerById().

3. Implement Concrete Repository:

Create a class CustomerRepositoryImpl that implements CustomerRepository.

4. Define Service Class:

Create a class CustomerService that depends on CustomerRepository.

5. Implement Dependency Injection:

Use constructor injection to inject CustomerRepository into CustomerService.

6. Test the Dependency Injection Implementation:

Create a main class to demonstrate creating a CustomerService with CustomerRepositoryImpl and using it to find a customer.  
**output:**

