**IMPLEMENTING DEPENDENCY INJECTION:**

1. **Creating a New Java Project**
   * A new Java project named DependencyInjectionExample was set up.
2. **Defining the Repository Interface**
   * An interface named CustomerRepository was defined with methods such as findCustomerById() to specify the operations for managing customer data.
3. **Implementing the Concrete Repository**
   * A class named CustomerRepositoryImpl was developed to implement the CustomerRepository interface and provide the actual data retrieval logic.
4. **Defining the Service Class**
   * A class called CustomerService was created with a dependency on CustomerRepository to handle business logic related to customer management.
5. **Implementing Dependency Injection**
   * Constructor injection was used to provide CustomerRepository to CustomerService, allowing for flexible dependency management and easier testing.
6. **Testing the Dependency Injection Implementation**
   * A main class was developed to demonstrate how CustomerService can be instantiated with CustomerRepositoryImpl, and how it can be used to find a customer, illustrating the effectiveness of dependency injection.
7. Output

