**Exercise 11: Dependency Injection**

**CustomerRepository.java**

public interface CustomerRepository {

String findCustomerById(String customerId);

}

**CustomerRepositoryImpl.java**

public class CustomerRepositoryImpl implements CustomerRepository {

*@Override*

public String findCustomerById(String customerId) {

return "Customer[ID=" + customerId + ", Name=abc]";

}

}

**CustomerService.java**

public class CustomerService {

private CustomerRepository customerRepository;

public CustomerService(CustomerRepository customerRepository) {

this.customerRepository = customerRepository;

}

public void displayCustomer(String customerId) {

String customer = customerRepository.findCustomerById(customerId);

System.***out***.println("Retrieved: " + customer);

}

}

**Main.java**

public class Main {

public static void main(String[] args) {

CustomerRepository repository = new CustomerRepositoryImpl();

CustomerService service = new CustomerService(repository);

service.displayCustomer("C101");

}

}

Output:

