



# MUMBAI EDUCATIONAL TRUST

## MET INSTITUTE OF COMPUTER SCIENCE



Practical No. :	11
Roll No. :	1520
Title of Practical :	Spring Application
Objective :	Write a Program to Demonstrate dependency injection and bean scopes in a Spring application.

### CODE :

#### Singer.java

```
package edu.met.p1;

public class Singer
{
    int sid;
    String Sname;

    //Default Constructor
    public Singer()
    {

    }

    //Parameterized Constructor
    public Singer(int sid, String sname) {
        super();
        this.sid = sid;
        Sname = sname;
    }

    public int getSid() {
```

```

        return sid;
    }

    public void setSid(int sid) {
        this.sid = sid;
    }

    public String getSname() {
        return Sname;
    }

    public void setSname(String sname) {
        Sname = sname;
    }

    @Override
    public String toString() {
        return "Singer [sid=" + sid + ", Sname=" + Sname + "]";
    }
}

```

## appctx.xml

```

<?xml version="1.0" encoding="UTF-8"?>
<beans
    xmlns="http://www.springframework.org/schema/beans"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:p="http://www.springframework.org/schema/p"
    xsi:schemaLocation="http://www.springframework.org/schema/beans
http://www.springframework.org/schema/beans/spring-beans-3.0.xsd">
    <bean id="singer" class="edu.met.p1.Singer" scope="prototype">
        <constructor-arg value="101"></constructor-arg>
        <constructor-arg value="Om"></constructor-arg>
    </bean>
</beans>

```

## SingerImpl.java

```
package edu.met.p1;
import org.springframework.context.ApplicationContext;
import
org.springframework.context.support.ClassPathXmlApplicationContext;

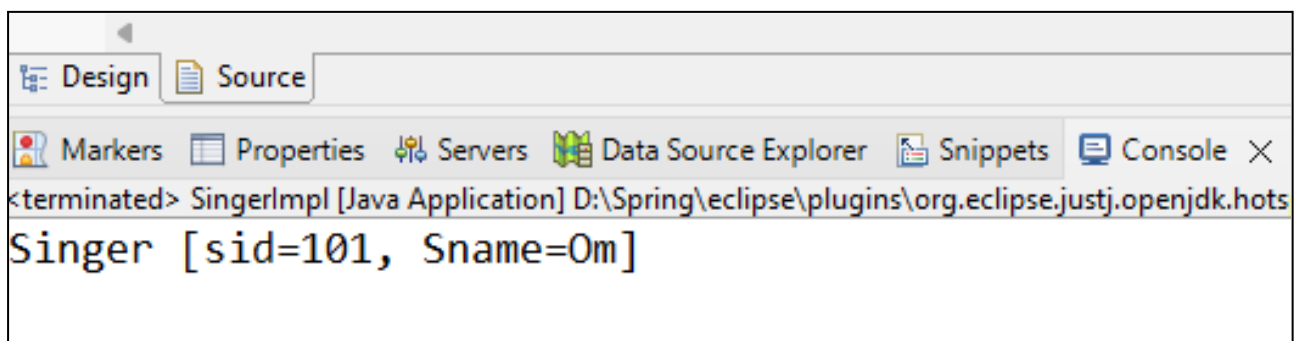
public class SingerImpl {
    static ApplicationContext ctx;
    public static void main(String[] args) {
        ctx = new ClassPathXmlApplicationContext("appctx.xml");
        Singer s1=(Singer)ctx.getBean("singer");
        System.out.println(s1);

        Singer s2=(Singer)ctx.getBean("singer");
        s2.setSid(102);
        s2.setSname("Neha");
        System.out.println(s2);

    }
}
```

### OUTPUT :

#### Scope: Singleton



#### Scope: Prototype

