

Program No:	12
Roll No :	1525
Title of Program :	
Objective :	Spring application with singleton scope

SOURCE CODE:

Singer.java

```
package edu.met.p1;
```

```
public class Singer {
```

```
    int sid;  
    String sname;
```

```
    public Singer(int sid, String sname) {  
        super();  
        this.sid = sid;  
        this.sname = sname;  
    }
```

```
    public Singer() {  
        // TODO Auto-generated constructor stub  
    }
```

```
    public int getSid() {  
        return sid;  
    }
```

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

```
    public String getSname() {  
        return sname;  
    }
```

```
}
```

```
public void setSname(String sname) {  
    this.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" >  
        <constructor-arg value="101"></constructor-arg>  
        <constructor-arg value="daddy"></constructor-arg>
```

```
</bean>
```

```
</beans>
```

```

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

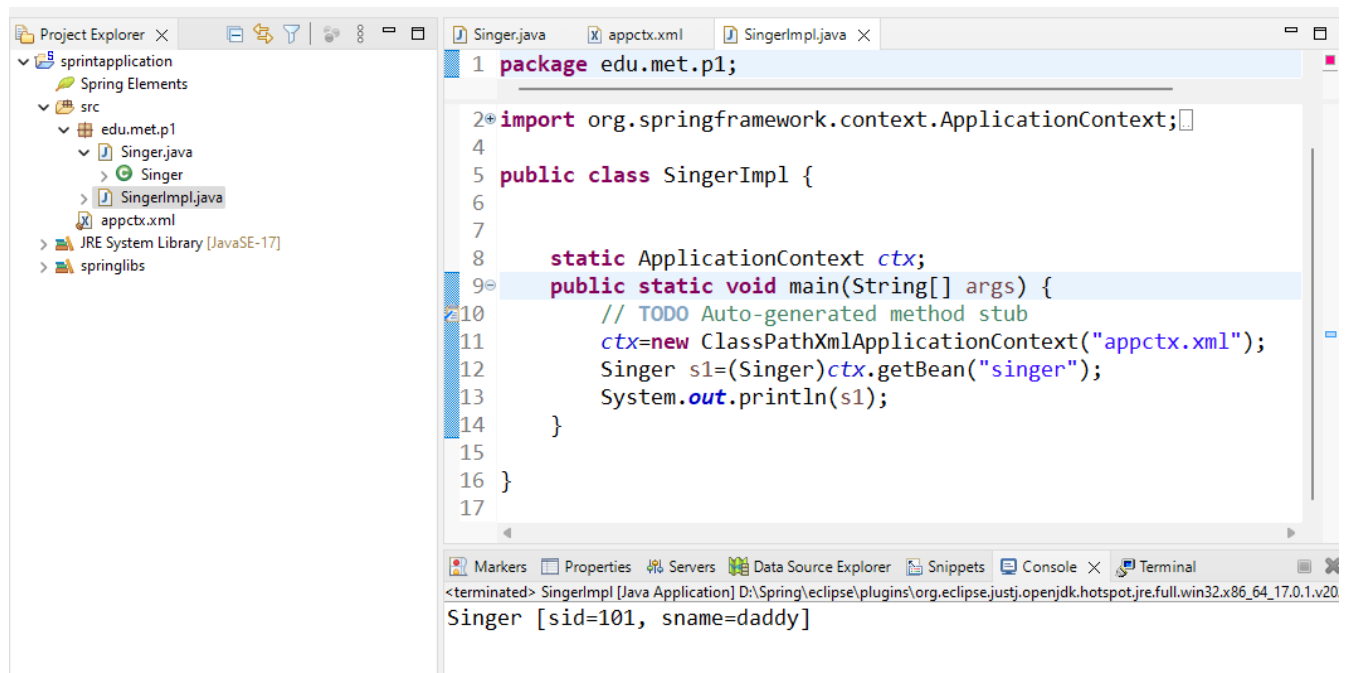
public class SingerImpl {

    static ApplicationContext ctx;
    public static void main(String[] args) {
        // TODO Auto-generated method stub
        ctx=new ClassPathXmlApplicationContext("appctx.xml");
        Singer s1=(Singer)ctx.getBean("singer");
        System.out.println(s1);
    }

}

```

OUTPUT:



The screenshot shows the Eclipse IDE interface. The Project Explorer on the left displays the project structure: 'sprintapplication' containing 'Spring Elements', 'src' (with 'edu.met.p1' containing 'Singer.java' and 'SingerImpl.java'), and 'appctx.xml'. The main editor shows the code for 'SingerImpl.java', which is identical to the code provided in the first block. The bottom console window shows the output of the program: '<terminated> SingerImpl [Java Application] D:\Spring\eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.1.v20... Singer [sid=101, sname=daddy]'.

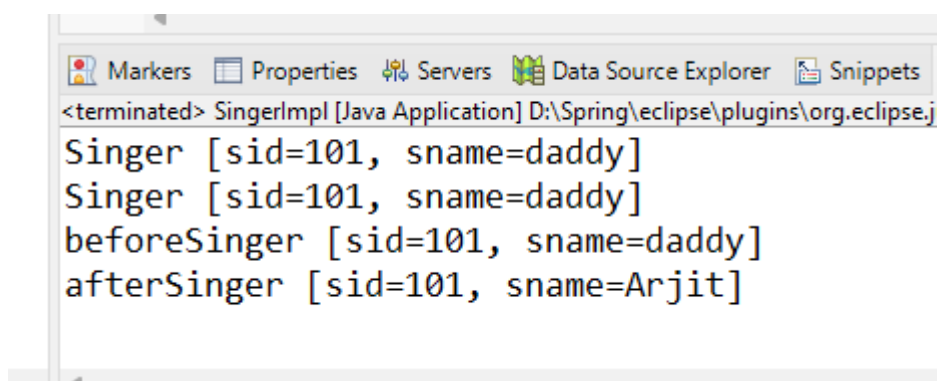
```

1 package edu.met.p1;
2+ import org.springframework.context.ApplicationContext;
3
4
5 public class SingerImpl {
6
7
8     static ApplicationContext ctx;
9
10    public static void main(String[] args) {
11        // TODO Auto-generated method stub
12        ctx=new ClassPathXmlApplicationContext("appctx.xml");
13        Singer s1=(Singer)ctx.getBean("singer");
14        System.out.println(s1);
15    }
16 }
17

```

<terminated> SingerImpl [Java Application] D:\Spring\eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.1.v20... Singer [sid=101, sname=daddy]

OUTPUT:



The screenshot shows the Eclipse IDE's console window. The title bar includes tabs for 'Markers', 'Properties', 'Servers', 'Data Source Explorer', and 'Snippets'. The console text shows the application has terminated, followed by four lines of output: 'Singer [sid=101, sname=daddy]', 'Singer [sid=101, sname=daddy]', 'beforeSinger [sid=101, sname=daddy]', and 'afterSinger [sid=101, sname=Arjit]'.

```
<terminated> SingerImpl [Java Application] D:\Spring\eclipse\plugins\org.eclipse.j
Singer [sid=101, sname=daddy]
Singer [sid=101, sname=daddy]
beforeSinger [sid=101, sname=daddy]
afterSinger [sid=101, sname=Arjit]
```