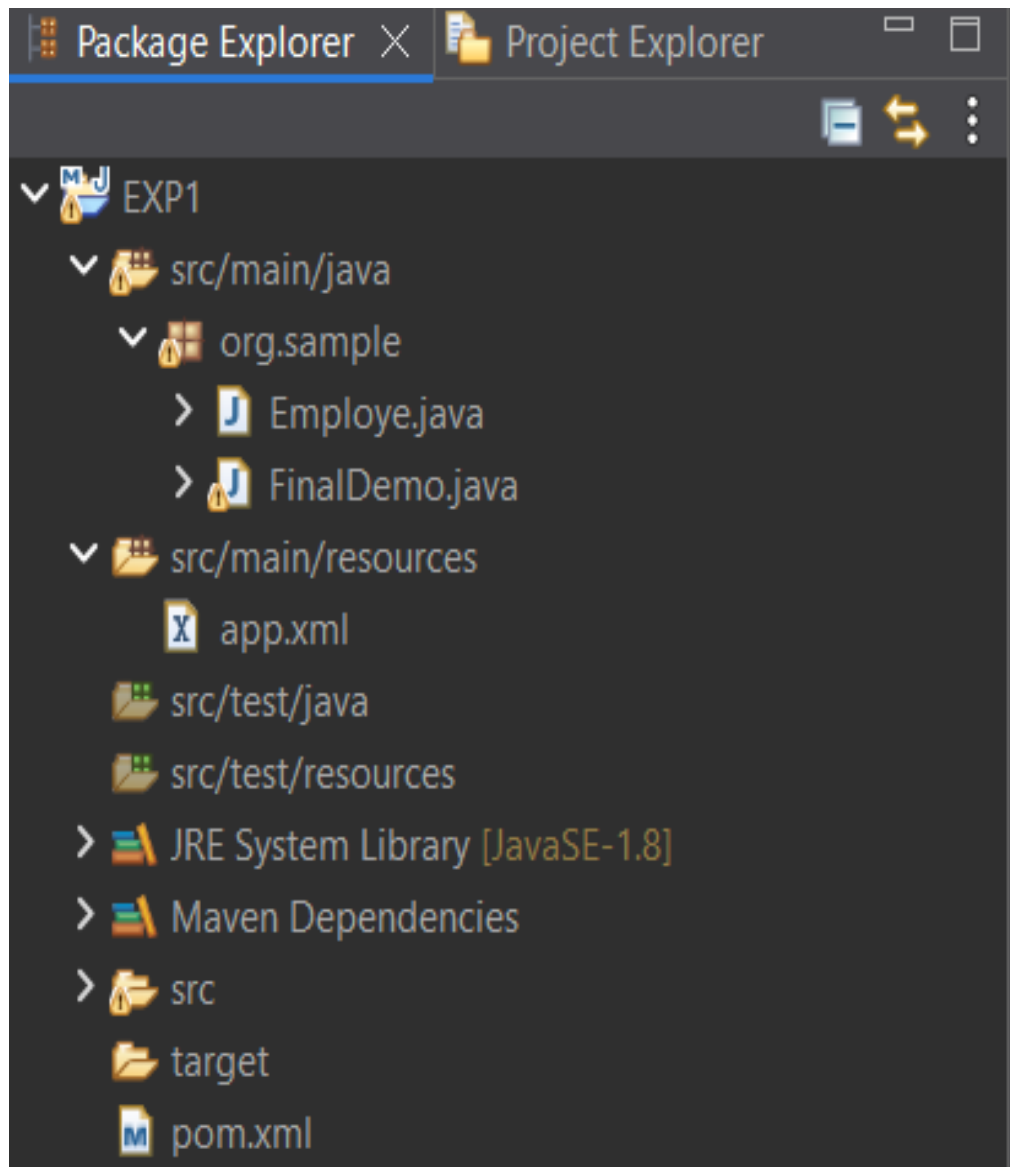


## 1.Aim: Basic Spring Application with Constructor Injection.

### Structure:



## Emplotee.java

```
package org.sample;

public class Emplotee {
    int eno;
    String ename;
    public Emplotee(int eno, String ename) {
        super();
        this.eno = eno;
        this.ename = ename;
    }
    public Emplotee(int eno) {
        super();
        this.eno = eno;
    }
    @Override
    public String toString() {
        return "Emplotee [eno=" + eno + ", ename=" + ename + "];"
    }
}
```

## FinalDemo.java

```
package org.sample;

import org.springframework.context.ApplicationContext;
import org.springframework.context.support.ClassPathXmlApplicationContext;

public class FinalDemo {

    public static void main(String[] args) {

        // TODO Auto-generated method stub

        ApplicationContext context=new
ClassPathXmlApplicationContext("app.xml");

        Emplotee e1=context.getBean("w",Emplotee.class);

        System.out.println(e1);

    }

}
```

## config.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"
       xsi:schemaLocation="http://www.springframework.org/schema/beans
       https://www.springframework.org/schema/beans/spring-beans.xsd">
  <bean id="w" class="org.sample.Emplotee">
    <constructor-arg index="0" value="101"></constructor-arg>
    <constructor-arg index="1" value="revathi"></constructor-arg>
  </bean>
</beans>
```

## Pom.xml

```
<project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
https://maven.apache.org/xsd/maven-4.0.0.xsd">

  <modelVersion>4.0.0</modelVersion>

  <groupId>ABCD</groupId>

  <artifactId>FIRSTEXP</artifactId>

  <version>0.0.1-SNAPSHOT</version>

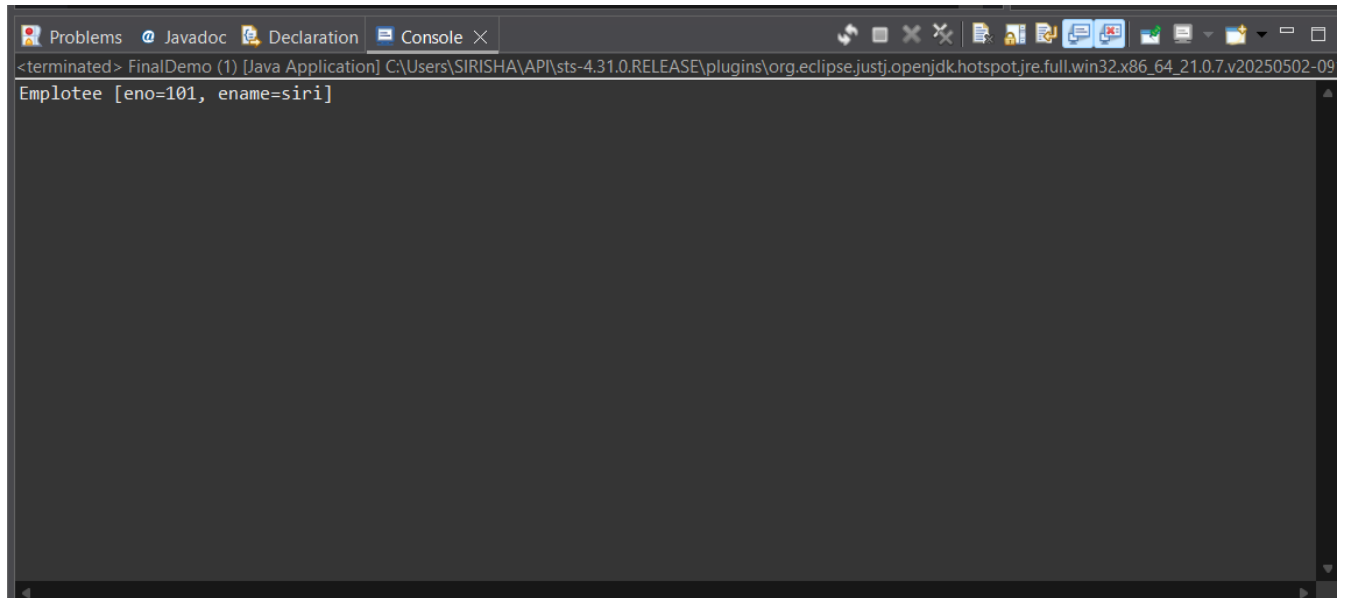
  <dependencies>

    <!-- https://mvnrepository.com/artifact/org.springframework/spring-core -->
    <dependency>
      <groupId>org.springframework</groupId>
      <artifactId>spring-core</artifactId>
      <version>7.0.0-M7</version>
    </dependency>

    <!-- https://mvnrepository.com/artifact/org.springframework/spring-context -->
    <dependency>
      <groupId>org.springframework</groupId>
      <artifactId>spring-context</artifactId>
      <version>7.0.0-M7</version>
    </dependency>
  </dependencies>

</project>
```

## Output:



The screenshot shows the Eclipse IDE's console window. The title bar includes tabs for 'Problems', 'Javadoc', 'Declaration', and 'Console'. The console output displays the following text:

```
<terminated> FinalDemo (1) [Java Application] C:\Users\SIRISHA\APL\sts-4.31.0.RELEASE\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_21.0.7.v20250502-09  
Emplotee [eno=101, ename=siri]
```

## 2.Aim: Spring Application with Setter Injection.

### Employee1.java

```
package doc.sample;

public class Employee1 {

    int eno;

    String ename;

    public int getEno() {

        return eno;

    }

    public void setEno(int eno) {

        this.eno = eno;

    }

    public String getEname() {

        return ename;

    }

    public void setEname(String ename) {

        this.ename = ename;

    }

    @Override

    public String toString() {

        return "Employee1 [eno=" + eno + ", ename=" + ename + "];"

    }

}
```

## Final.java

```
package doc.sample;

import org.springframework.context.ApplicationContext;
import org.springframework.context.support.ClassPathXmlApplicationContext;

public class Final {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        ApplicationContext context=new
ClassPathXmlApplicationContext("config.xml");
        Employee1 p2=context.getBean("p", Employee1.class);
        System.out.println(p2);

    }

}
```



## config.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"
       xsi:schemaLocation="http://www.springframework.org/schema/beans
       https://www.springframework.org/schema/beans/spring-beans.xsd">
  <bean id="p" class="doc.sample.Employee1">
    <property name="eno" value="250"></property>
    <property name="ename" value="Aditya"></property>
  </bean>
</beans>
```

## **pom.xml**

```
<project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
https://maven.apache.org/xsd/maven-4.0.0.xsd">

  <modelVersion>4.0.0</modelVersion>

  <groupId>ASD</groupId>

  <artifactId>SECOND</artifactId>

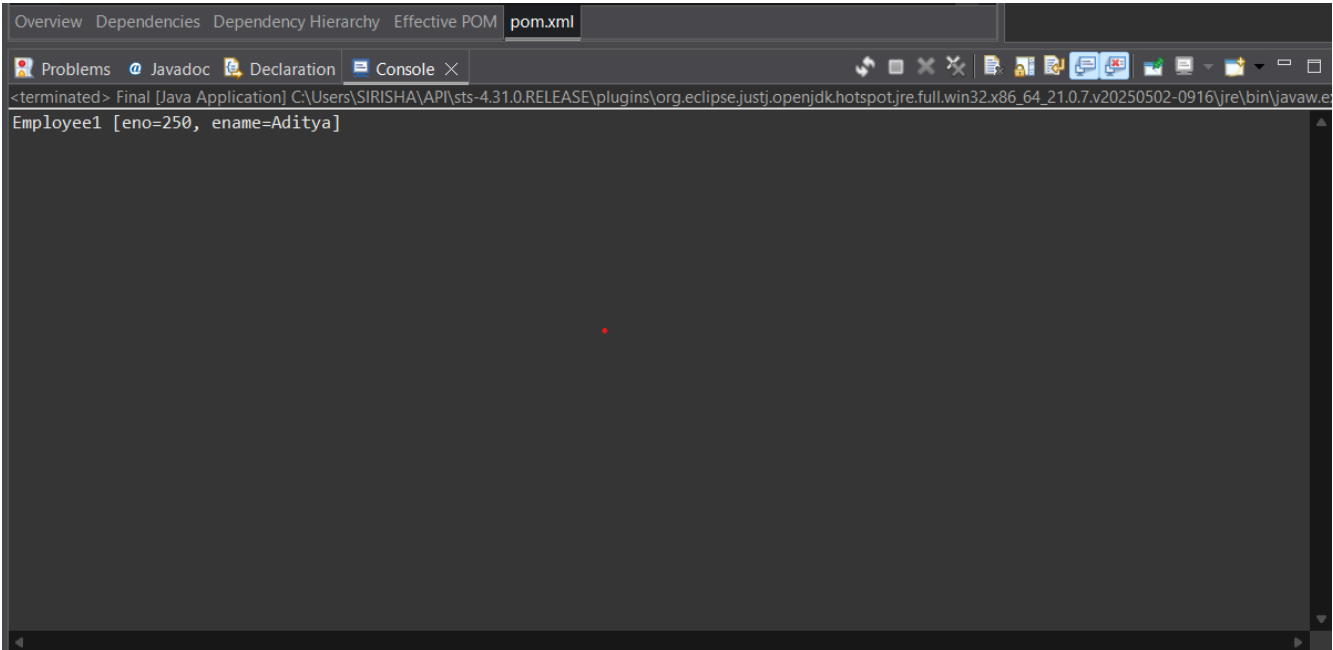
  <version>0.0.1-SNAPSHOT</version>

  <dependencies>

    <!-- https://mvnrepository.com/artifact/org.springframework/spring-core -->
    <dependency>
      <groupId>org.springframework</groupId>
      <artifactId>spring-core</artifactId>
      <version>7.0.0-M7</version>
    </dependency>

    <!-- https://mvnrepository.com/artifact/org.springframework/spring-context -->
    <dependency>
      <groupId>org.springframework</groupId>
      <artifactId>spring-context</artifactId>
      <version>7.0.0-M7</version>
    </dependency>
  </dependencies>
</project>
```

## OUTPUT:



The screenshot shows the Eclipse IDE's console window. The top bar includes tabs for 'Overview', 'Dependencies', 'Dependency Hierarchy', 'Effective POM', and 'pom.xml'. Below this is a toolbar with icons for 'Problems', 'Javadoc', 'Declaration', and 'Console'. The console output displays the following text:

```
<terminated> Final [Java Application] C:\Users\SIRISHA\AP\sts-4.31.0.RELEASE\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_21.0.7.v20250502-0916\jre\bin\javaw.exe  
Employee1 [eno=250, ename=Aditya]
```

The console area is mostly empty, with a small red dot visible in the center.

### 3. Aim: Spring Auto Scanning Example

#### Student1.java

```
package com.example;

import org.springframework.stereotype.Component;

@Component

public class student1 {

    @Override

    public String toString() {

        return "My name is siri,Iam studying MCA 2nd year..";

    }

}
```

#### Student2.java

```
package com.example;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Component;

@Component

public class student2 {

    @Autowired

    student1 f;

    @Override

    public String toString()

    {

        return "My name is siri,I am studying MCA 2nd year"+f;

    }

}
```

## **finalDemo.java**

```
package com.example;

import org.springframework.context.ApplicationContext;
import org.springframework.context.support.ClassPathXmlApplicationContext;

public class finalDemo {

    public static void main(String[] args) {

        // TODO Auto-generated method stub

        ApplicationContext context=new
ClassPathXmlApplicationContext("config.xml");

        student2 s=(student2)context.getBean("student2");

        System.out.println(s);

    }

}
```

## Config1.xml

```
<beans xmlns="http://www.springframework.org/schema/beans"
       xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
       xmlns:context="http://www.springframework.org/schema/context"
       xsi:schemaLocation="http://www.springframework.org/schema/beans
                           http://www.springframework.org/schema/beans/spring-beans-2.5.xsd
                           http://www.springframework.org/schema/context
                           http://www.springframework.org/schema/context/spring-context-2.5.xsd">
  <context:component-scan base-package="com.example"></context:component-
scan>
</beans>
```

## Pom.xml

```
<project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
https://maven.apache.org/xsd/maven-4.0.0.xsd">

  <modelVersion>4.0.0</modelVersion>

  <groupId>Exp3</groupId>

  <artifactId>student</artifactId>

  <version>0.0.1-SNAPSHOT</version>

  <dependencies>

    <!-- https://mvnrepository.com/artifact/org.springframework/spring-core -->
    <dependency>

      <groupId>org.springframework</groupId>

      <artifactId>spring-core</artifactId>

      <version>7.0.0-M7</version>

    </dependency>

    <!-- https://mvnrepository.com/artifact/org.springframework/spring-context -->
    <dependency>

      <groupId>org.springframework</groupId>

      <artifactId>spring-context</artifactId>

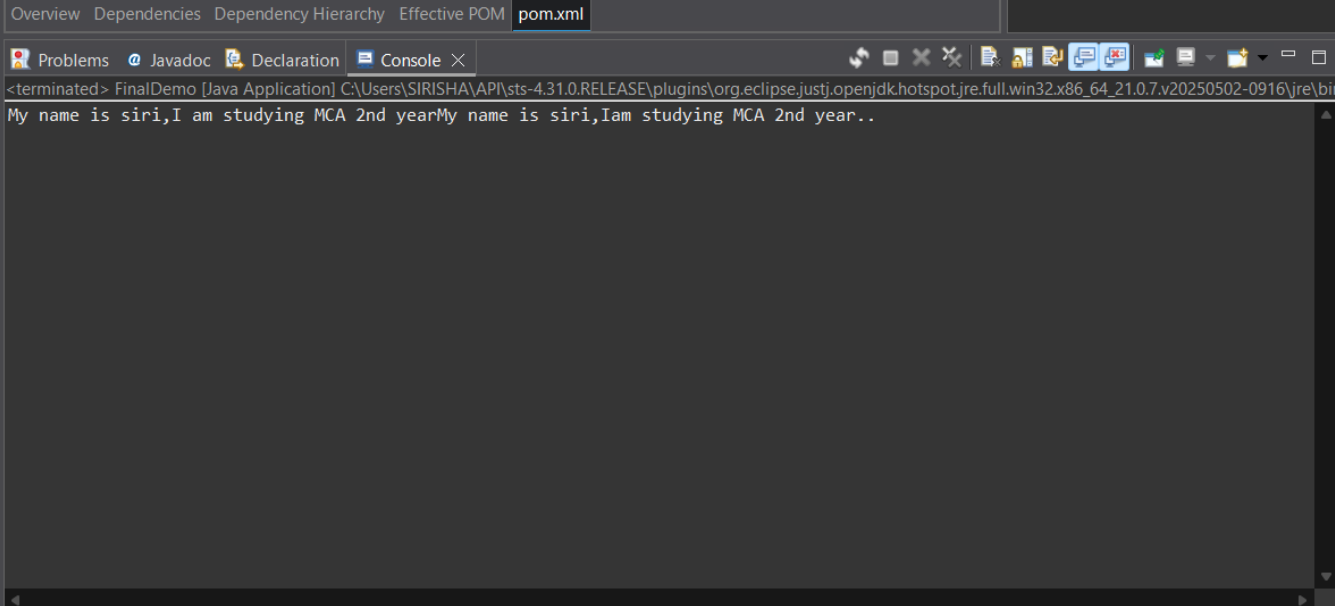
      <version>7.0.0-M7</version>

    </dependency>

  </dependencies>

</project>
```

## OUTPUT:



The screenshot shows the Eclipse IDE's console window. The top bar includes tabs for 'Overview', 'Dependencies', 'Dependency Hierarchy', 'Effective POM', and 'pom.xml'. Below this is a toolbar with icons for 'Problems', 'Javadoc', 'Declaration', and 'Console'. The console text area displays the following output:

```
<terminated> FinalDemo [Java Application] C:\Users\SIRISHA\AP\sts-4.31.0.RELEASE\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_21.0.7.v20250502-0916\jre\bin
My name is siri,I am studying MCA 2nd yearMy name is siri,Iam studying MCA 2nd year..
```