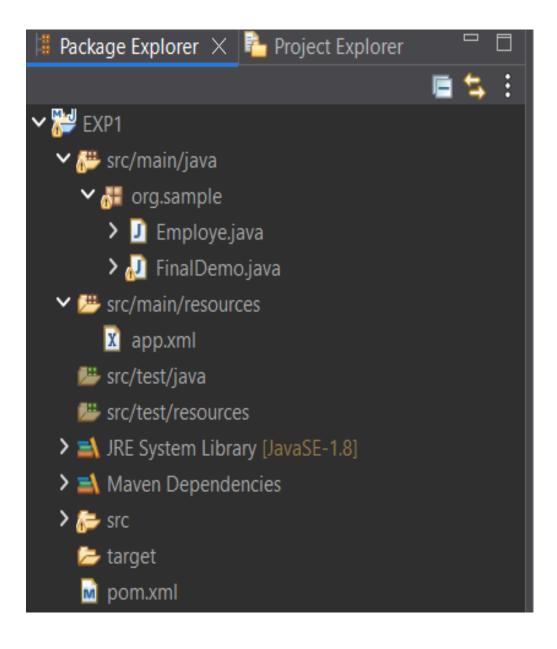
1.Aim: Basic Spring Application with Constructor Injection.

Structure:



Employee.java

```
package com.exam;
public class Employee {
      int eno;
      String ename;
      public Employee(int eno, String ename) {
            super();
            this.eno = eno;
            this.ename = ename;
      }
      public Employee(int eno) {
            super();
            this.eno = eno;
      @Override
      public String toString() {
            return "Employee [eno=" + eno + ", ename=" + ename + "]";
      }
public void read() {
      System.out.println("This is created using parameteraised constructor
to create employee class");
}
```

Mainmethod.java

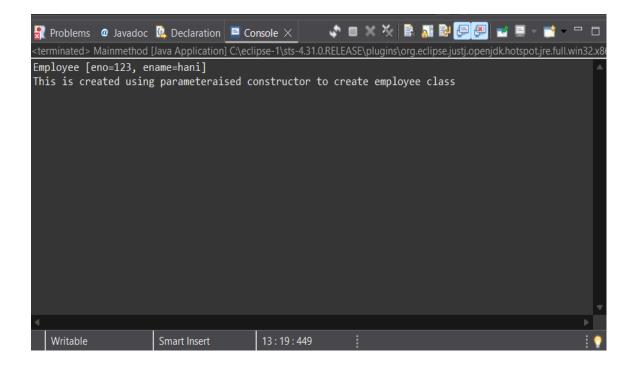
rare.xml

```
<?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="a" class="com.exam.Employee">
        <constructor-arg type="int" value="123"></constructor-arg>
        </bean>
</bean>
```

Pom.xml

```
coject 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>AAA
 <artifactId>PG2</artifactId>
 <version>0.0.1-SNAPSHOT
<dependencies>
<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:



2.Aim: Spring Application with Setter Injection.

Employee.java

```
package org.sample;
public class Employe {
      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 "Employe [eno=" + eno + ", ename=" + ename + "]";
```

FinalDemo.java

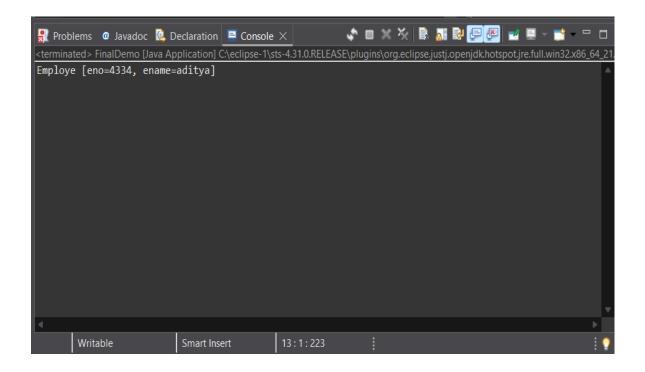
```
package org.sample;
import org.springframework.context.ApplicationContext;
import
org.springframework.context.support.ClassPathXmlApplicationContext;
public class FinalDemo {
      public static void main(String[] args) {
            // TODO Auto-generated method stub
            ApplicationContext <u>context</u>=new
ClassPathXmlApplicationContext("app.xml");
            Employe e2=context.getBean("e",Employe.class);
            System.out.println(e2);
      }
}
```

app.xml

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>Org</groupId>
 <artifactId>Lab-3</artifactId>
 <version>0.0.1-SNAPSHOT
<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:



3. Aim: Spring Auto Scanning Example

FirstStudent.java

```
package org.example;
import org.springframework.stereotype.Component;
@Component
public class FirstStudent {
      @Override
     public String toString() {
            return "My name is Hani, I'm studying MCA II year";
      }
}
SecondStudent.java
package org.example;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Component;
@Component
public class SecondStudent {
      (a)Autowired
     FirstStudent f;
      @Override
     public String toString() {
            return "My name is Bhavya, I'm studying MBA II year at
Aditya University" +f;}
      }
```

FinalStudent.java

```
package org.example;
import org.springframework.context.ApplicationContext;
import
org.springframework.context.support.ClassPathXmlApplicationContext;

public class FinalStudent {

    public static void main(String[] args) {

         ApplicationContext
         context=newClassPathXmlApplicationContext("config1.xml");

         SecondStudent s=(SecondStudent)context.getBean("secondStudent");

         System.out.println(s);
    }
}
```

Config1.xml

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/springcontext-2.5.xsd">

<context:component-scan base-package="org.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>Org</groupId>
 <artifactId>Lab-3</artifactId>
 <version>0.0.1-SNAPSHOT
<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:

