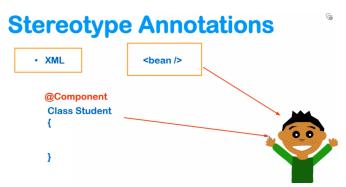
WHen we was using XML in that case we need to use bean class {with name} and IOC
was creating object for that bean but now in case of stereotype annotation @component
Will do same work we dont need to specify bean.



Just one thing we have to do is in configuration file we need to **specify package name**.

## <context:component-scan base-package=" " />

As we have specify @Component on class Student so IOC container will create abject of that class with camelcase. also we can specify it explicitly in component refer e.g 2

```
2 | ₹ 😿 | † ▼ 💽 ▼ 🚰 ▼ 🚰 ▼ 🚰 ▼ 👺 ▼ 🤔 😕 😥 🗐 ¶ ¶ ¶ 🔞 👰 ▼ 🖓 ▼ 🖓 ▼ 🎁 ▼ 💆 ▼ 🖒 ▼ 🖒 ▼ 📑
🗵 🛭 Student.java 🔑 Test.java 🗎 stero.xml 🗵
    1<?xml version="1.0" encoding="UTF-8"?>
    2 <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"
    6
          xmlns:p="http://www.springframework.org/schema/p"
    8
    9
          xsi:schemaLocation="http://www.springframework.org/schema/beans
   10
   11
          http://www.springframework.org/schema/beans/spring-beans-3.0.xsd
   12
          http://www.springframework.org/schema/context
   13
          http://www.springframework.org/schema/context/spring-context.xsd ">
   14
   15
   16
         <context:component-scan base-package="com.spring.sterotype"/>
   17
   18
   19
   20
   21
```

```
Student.java × 🕖 Test.java 🖹 stero.xml
  1 package com.spring.sterotype;
 3@import org.springframework.beans.factory.annotation.Value;
 4 import org.springframework.stereotype.Component;
  6 @Component
  7 public class Student {
                 @Value("Omkar Lokhande")
                  private String studentName;
                  @Value("Baramati")
                  private String city;
 2⊖
                  public String getStudentName() {
                             return studentName;
                  public void setStudentName(String studentName) {
 .5⊝
 6
                             this.studentName = studentName;
                  public String getCity() {
 9
                            return city;
:0
110
                  public void setCity(String city) {
!2
                             this.city = city;
!3
!4⊝
                  @Override
!5
                  public String toString() {
                             return "Student [studentName=" + studentName + ", city=" + city + "]";
16
!7
!8
19 }
n Project Kun Window Help
 Q 🔡 😭
□ Student.java 🔑 Test.java × 🖹 stero.xml
                                                                                                                                                                                                                                    Pro... # Ser... 

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                 package com.spring.sterotype;
@import org.springframework.context.ApplicationContext;
import org.springframework.context.support.ClassPathXmlApplicationContext;
                                                                                                                                                                                                                                    Student [studentName=Omkar Lokhande, city=Baramati] A
               4 public class Test {
                          public static void main(String[] args) {
    ApplicationContext con=new ClassPathXmlApplicationContext("com/spring/sterotype/stero
    Student student=con.getBean("student",Student.class);
    System.out.println(student);
```

## E.g 2: explicitly specify obj name in @Component

```
1 package com.spring.sterotype;
  3⊝import org.springframework.beans.factory.annotation.Value;
  4 import org.springframework.stereotype.Component;
   @Component ("ob")
  7 public class Student {
80  @Value("Omkar Lokhande")
        private String studentName;
@Value("Baramati")
       private String city;
       public String getStudentName() {
   return studentName;
        public void setStudentName(String studentName) {
            this.studentName = studentName;
18⊜
        public String getCity() {
            return city;
       public void setCity(String city) {
        public String toString() {
            return "Student [studentName=" + studentName + ", city=" + city + "]";
```

## Collection using @Value

```
c/main/java/com/spring/sterotype/Student.java - Eclipse IDE
```

```
Project Run Window Help
🛽 🖸 Student.java 🗡 🍱 Test.java 🗎 stero.xml
     package com.spring.sterotype;
    3⊝import java.util.List;
    5 import org.springframework.beans.factory.annotation.Value;
      import org.springframework.stereotype.Component;
    9 public class Student {
         private String studentName;
@Value("Baramati")
         private String city;
@Value("#{temp}")
         private List<String> list1;
public String getStudentName() {
             return studentName;
         public void setStudentName(String studentName) {
   this.studentName = studentName;
         public String getCity() {
              return city;
          public void setCity(String city) {
              this.city = city;
          public List<String> getList1() {
              return list1;
          public void setList1(List<String> list1) {
          @Override
          public String toString() {
              return "Student [studentName=" + studentName + ", city=" + city + "]";
```

```
{	extstyle 	ex
      1<?xml version="1.0" encoding="UTF-8"?>
      2 <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"
                   xmlns:p="http://www.springframework.org/schema/p"
     8
                   xmlns:util="http://www.springframework.org/schema/util"
   10
                   xsi:schemaLocation="http://www.springframework.org/schema/beans
   13
                   http://www.springframework.org/schema/beans/spring-beans-3.0.xsd
  14
15
                   http://www.springframework.org/schema/context
                   http://www.springframework.org/schema/context/spring-context.xsd
  16
  17
18
19
                      http://www.springframework.org/schema/util
                      http://www.springframework.org/schema/util/spring-util.xsd ">
  20
21
22
  23
24
25
                   <context:component-scan base-package="com.spring.sterotype"/>
  26
27
                           <util:list list-class="java.util.ArrayList" id="temp">
                            <value>Mumbai</value>
   29
                           <value>Pune</value>
                           <value>Satara</value>
   31
                     </util:list >
c/main/java/com/spring/sterotype/Test.java - Eclipse IDE
 Project Run Window Help
 Q : #
🗓 Student,java 🔑 Test.java 🗴 🗎 stero.xml
                                                                                                                                                                                                                                           1 package com.spring.sterotype;

2=import org.springframework.context.ApplicationContext;

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

4 public class Test {
                                                                                                                                                                                                                                                                                                ■ X ¾ 🖟 🔝 🖗 🗗 🗗 🕆 📑 🔻
                                                                                                                                                                                                                                          <terminated> Test (5) [Java Application] C\Program Files\Java\jdk-21\bin\Java
Student [studentName=Omkar Lokhande, city=Baramati] a
[Mumbai, Pune, Satara]
                       public static void main(String[] args) {
    ApplicationContext con=new ClassPathXmlApplicationContext("com/spring/sterotype/stero
    Student student=con.getBean("ob",Student.class);
                                 System.out.println(student);
System.out.print(student.getList1());
                       1
     13
14 }
15
```