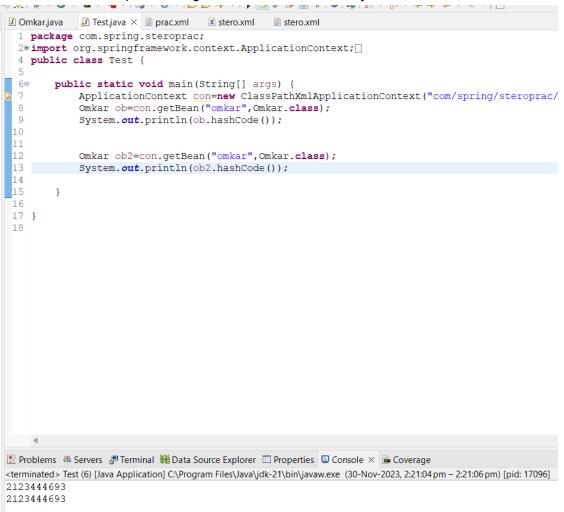
Bean Scope



Bean Sope: allow to have control on spring bean instance creation.

- Request →used in web application(with HTTP)
- **Singleton**: it applied automatically(its default)[Single object is created and provided to you every time]. As when we ask obj from IOC container it provide single object and even we ask multiple time it give reference of same object.



• **Prototype**: as singleton is default we can convert it into priototype.in this every time different object of bean is created and provided to you.

Configure bean scope

```
<bean class="" name="" scope="" />
@Component
@Scope(" ")
Class Student
{
```

We have to specify scope as prototype because it is singleton by default.

E.g with annotation:->

```
1 package com.spring.steroprac;
  3⊕ import java.util.Map; ...
 9 @Component
 10 @Scope(("prototype")
 11 public class Omkar {
       @Value("Omkar R Lokhande")
       private String name;
 13
      @Value("22")
 14⊖
      private String Age;
@Value("#{omi}")
 15
 16⊜
       private Map<String ,String> map;
 18⊜
      public String getName() {
 19
            return name;
      public void setName(String name) {
 21⊝
          this.name = name;
 22
 23
       public String getAge() {
 24⊝
 25
           return Age;
 26
 27⊝
      public void setAge(String age) {
 28
            Age = age;
 29
 31⊝
        public Map<String, String> getMap() {
 32
          return map;
 33
       public void setMap(Map<String, String> map) {
 34⊖
 35
            this.map = map;
 36
 37⊜
        @Override
 3.8
         public String toString() {
📳 Problems 🚜 Servers 🎤 Terminal 🗯 Data Source Explorer 🔲 Properties 📮 Console 🗵 庙 Coverage
<terminated> Test (6) [Java Application] C:\Program Files\Java\jdk-21\bin\javaw.exe (30-Nov-2023, 2:26:54 pm - 2:26:55 pm) [pid: 12196]
561480862
895281180
```

rc/main/java/com/spring/steroprac/Test.java - Eclipse IDE

```
Project Run Window Help
□ 💹 Test.java × 🖸 Omkar.java
  1 package com.spring.steroprac;
    4 public class Test {
          public static void main(String[] args) {
             ApplicationContext con=new ClassPathXmlApplicationContext("com/spring/steroprac/prac.xml");
  № 7
    8
             Omkar ob=con.getBean("omkar", Omkar.class);
    9
             System.out.println(ob.hashCode());
   10
   11
   12
             Omkar ob2=con.getBean("omkar",Omkar.class);
   13
             System.out.println(ob2.hashCode());
   14
   15
   16
   17 }
   18
  🖺 Problems 🚜 Servers 🎤 Terminal 🗯 Data Source Explorer 🔲 Properties 💂 Console 🗴 🗎 Coverage
  <terminated > Test (6) [Java Application] C:\Program Files\Java\jdk-21\bin\javaw.exe (30-Nov-2023, 2:26:54 pm - 2:26:55 pm) [pid: 12196]
  561480862
  895281180
```

E.g with bean

```
App.java × <a> Person.java</a>
  1 package com.spring.SpringStandaloneCollection;
  3. import org.springframework.context.ApplicationContext;
  5 public class App
  7⊝
         public static void main( String[] args )
              ApplicationContext con=new ClassPathXmlApplicationContext("com/spring/SpringStandaloneCollection/standalc.:
9
10
              Person p=(Person) con.getBean("pp");
11
             System.out.println(p.hashCode());
              Person p2=con.getBean("pp", Person.class);
 14
             System.out.println(p2.hashCode());
 15
 16
 18
          }
 21 }

    Problems 
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    Perminal 
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    Servers □ Coverage

<terminated> App (7) [Java Application] C:\Program Files\Java\jdk-21\bin\javaw.exe (30-Nov-2023, 2:31:15 pm – 2:31:17 pm) [pid: 5608]
2021707251
1541857308
```

```
http://www.springframework.org/schema/beans/spring-beans-3.0.xsd (xsi:schemaLocation) | http://ww
   1 k?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:p="http://www.springframework.org/schema/p"
          xmlns:util="http://www.springframework.org/schema/util"
xsi:schemaLocation="http://www.springframework.org/schema/beans
           http://www.springframework.org/schema/beans/spring-beans-3.0.xsd
          http://www.springframework.org/schema/context
http://www.springframework.org/schema/context/spring-context.xsd
http://www.springframework.org/schema/util
http://www.springframework.org/schema/util/spring-util.xsd
11
12
13
14
15
            <util:properties id="prop">
            key="1" >One   key="2" >Two   key="3" >Three </util:properties>
16
17
18
19
20
21
22
23
24
           <bean class="com.spring.SpringStandaloneCollection.Person" name="pp" scope="prototype">
cyproperty name="pro" ref="prop" />
           </bean>
27 </beans>
🖺 Problems 🦇 Servers 🎤 Terminal 🗯 Data Source Explorer 🔲 Properties 🖳 Console 🗴 🖺 Coverage
<terminated> App (7) [Java Application] C\Program Files\Java\jdk-21\bin\javaw.exe (30-Nov-2023, 2:31:15 pm – 2:31:17 pm) [pid: 5608]
2021707251
1541857308
```