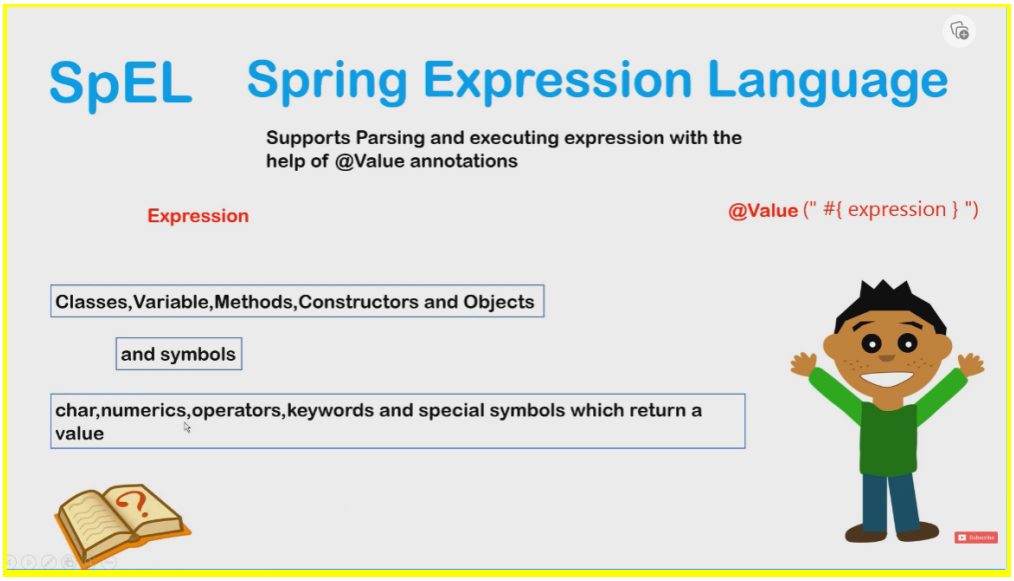
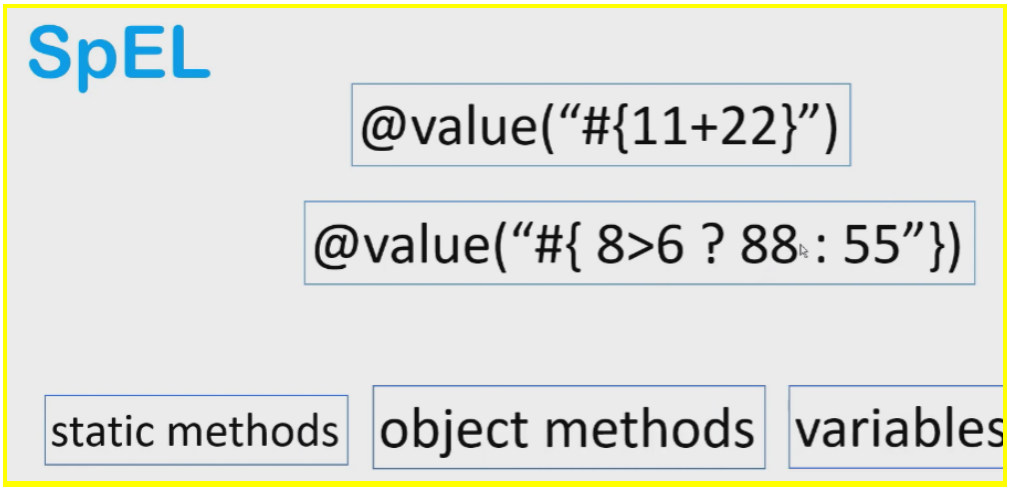
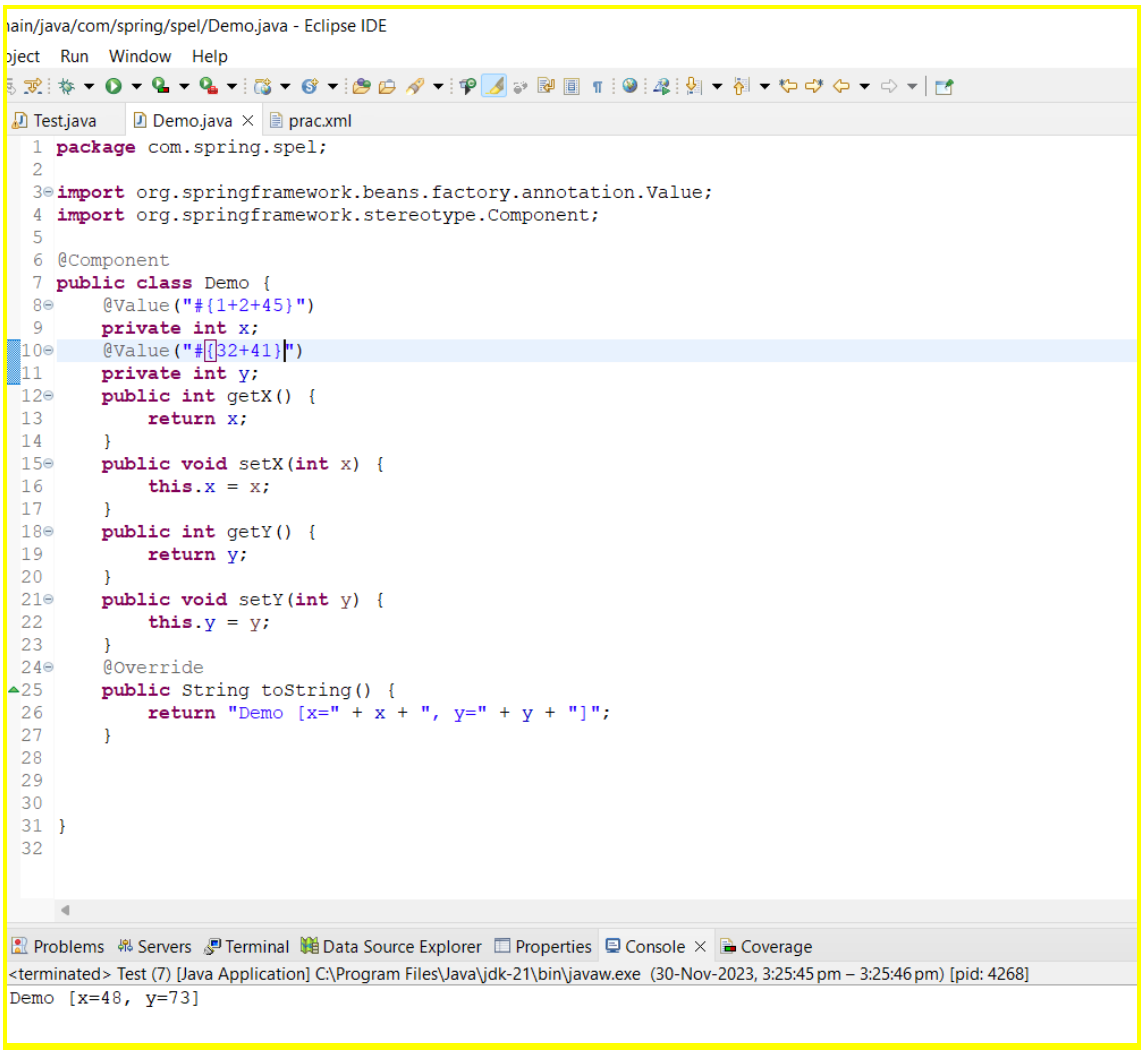
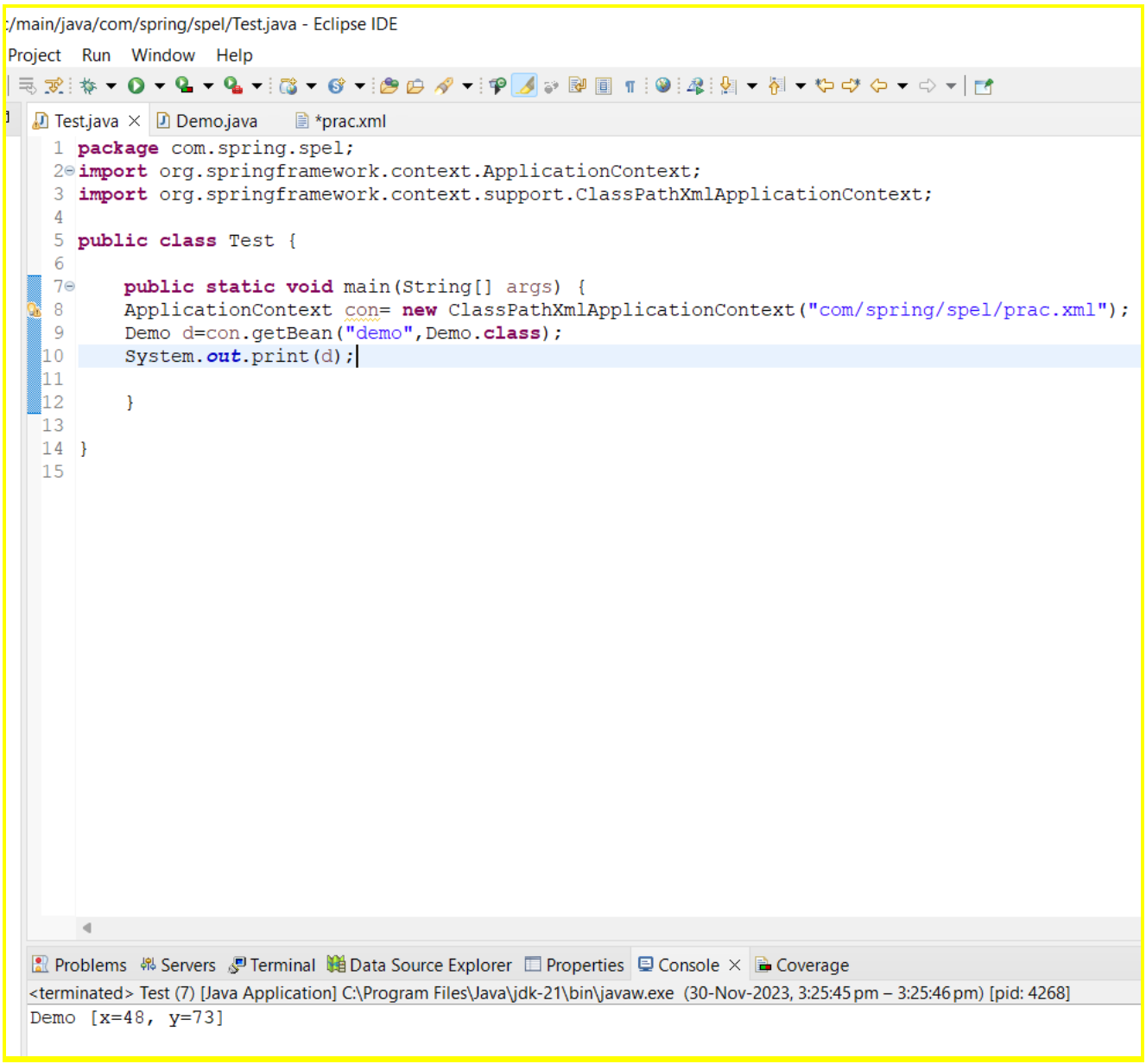
Spring Expression Language : -






ain/java/com/spring/spel/Demo.java - Eclipse IDE
ject Run Window Help
Test.java
Demo.java
prac.xml
1 package com.spring.spel;
2
3 import org.springframework.beans.factory.annotation.Value;
4 import org.springframework.stereotype.Component;
5
6 @Component
7 public class Demo {
8 @Value("#{1+2+45}")
9 private int x;
10 @Value("#{32+41}")
11 private int y;
12 public int getX() {
13 return x;
14 }
15 public void setX(int x) {
16 this.x = x;
17 }
18 public int getY() {
19 return y;
20 }
21 public void setY(int y) {
22 this.y = y;
23 }
24 @Override
25 public String toString() {
26 return "Demo [x=" + x + ", y=" + y + "]";
27 }
28
29
30
31 }
32
Problems Servers Terminal Data Source Explorer Properties Console Coverage
<terminated> Test (7) [Java Application] C:\Program Files\Java\jdk-21\bin\javaw.exe (30-Nov-2023, 3:25:45 pm – 3:25:46 pm) [pid: 4268]
Demo [x=48, y=73]

http://www.springframework.org/schema/beans/spring-beans-3.0.xsd (xsi:schemaLocation)
1 <?xml version="1.0" encoding="UTF-8"?>
2 <beans xmlns="http://www.springframework.org/schema/beans"
3 xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
4
5 xmlns:context="http://www.springframework.org/schema/context"
6 xmlns:p="http://www.springframework.org/schema/p"
7
8 xmlns:util="http://www.springframework.org/schema/util"
9
10
11 xsi:schemaLocation="http://www.springframework.org/schema/beans
12
13 http://www.springframework.org/schema/beans/spring-beans-3.0.xsd
14 http://www.springframework.org/schema/context
15 http://www.springframework.org/schema/context/spring-context.xsd
16
17
18 ">
19
20
21 <context:component-scan base-package="com.spring.spel/>
22
23
24
25
26 </beans>



We have another way to dio this as below:

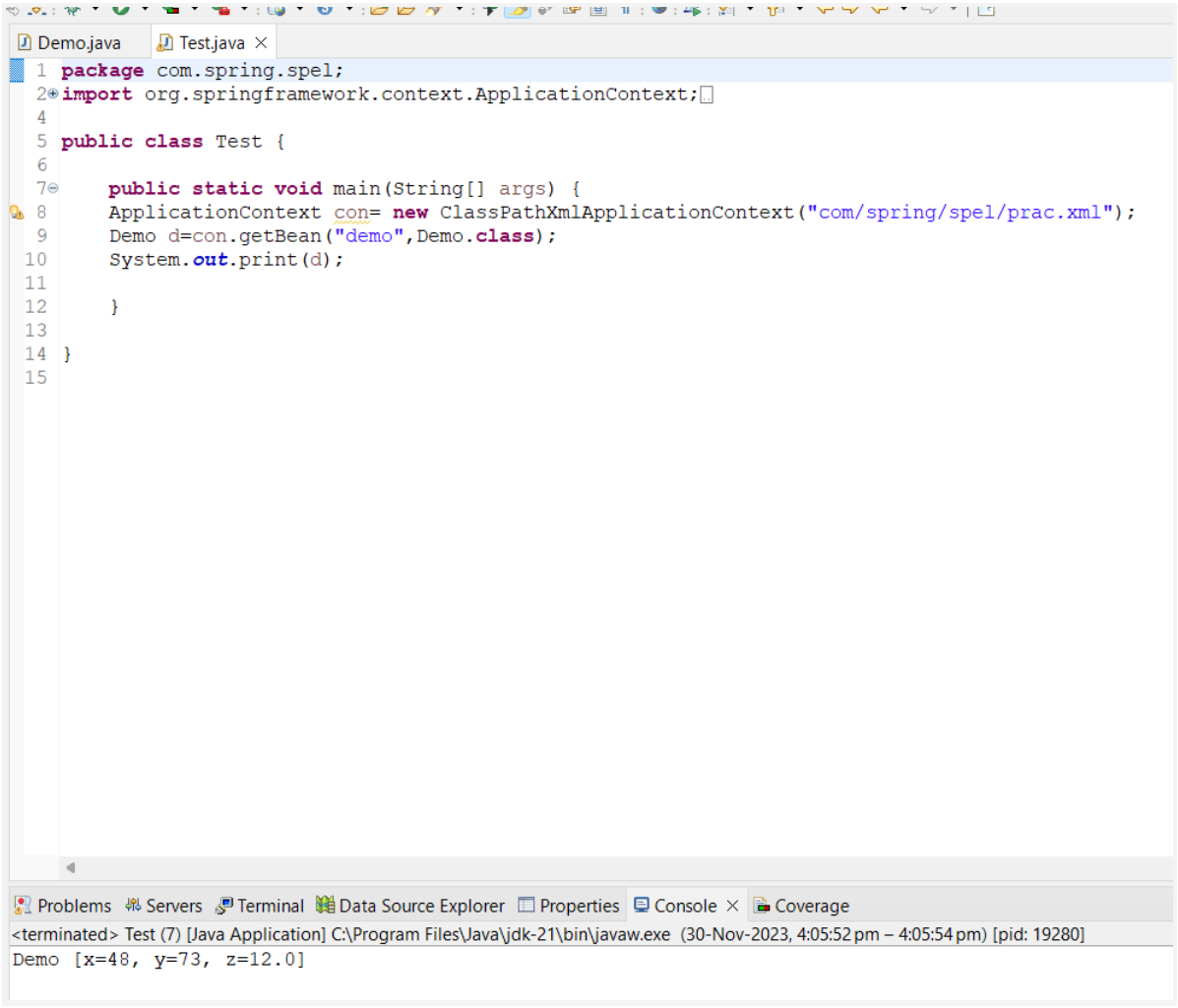
```
n/java/com/spring/spel/Test.java - Eclipse IDE
ct  Run  Window  Help
*Test.java ×  Demo.java  prac.xml
1  package com.spring.spel;
2  import java.beans.Expression;
3
4  import org.springframework.context.ApplicationContext;
5  import org.springframework.context.support.ClassPathXmlApplicationContext;
6  import org.springframework.expression.spel.standard.SpelExpressionParser;
7
8  public class Test {
9
10     public static void main(String[] args) {
11     ApplicationContext con= new ClassPathXmlApplicationContext("com/spring/spel/prac.xml");
12     Demo d=con.getBean("demo",Demo.class);
13     System.out.print(d);
14
15     SpelExpressionParser p=new SpelExpressionParser();
16     Expression e=(Expression) p.parseExpression("22+44");
17     System.out.println(e.getValue());
18
19     }
20
21 }
22
```

Output : 66

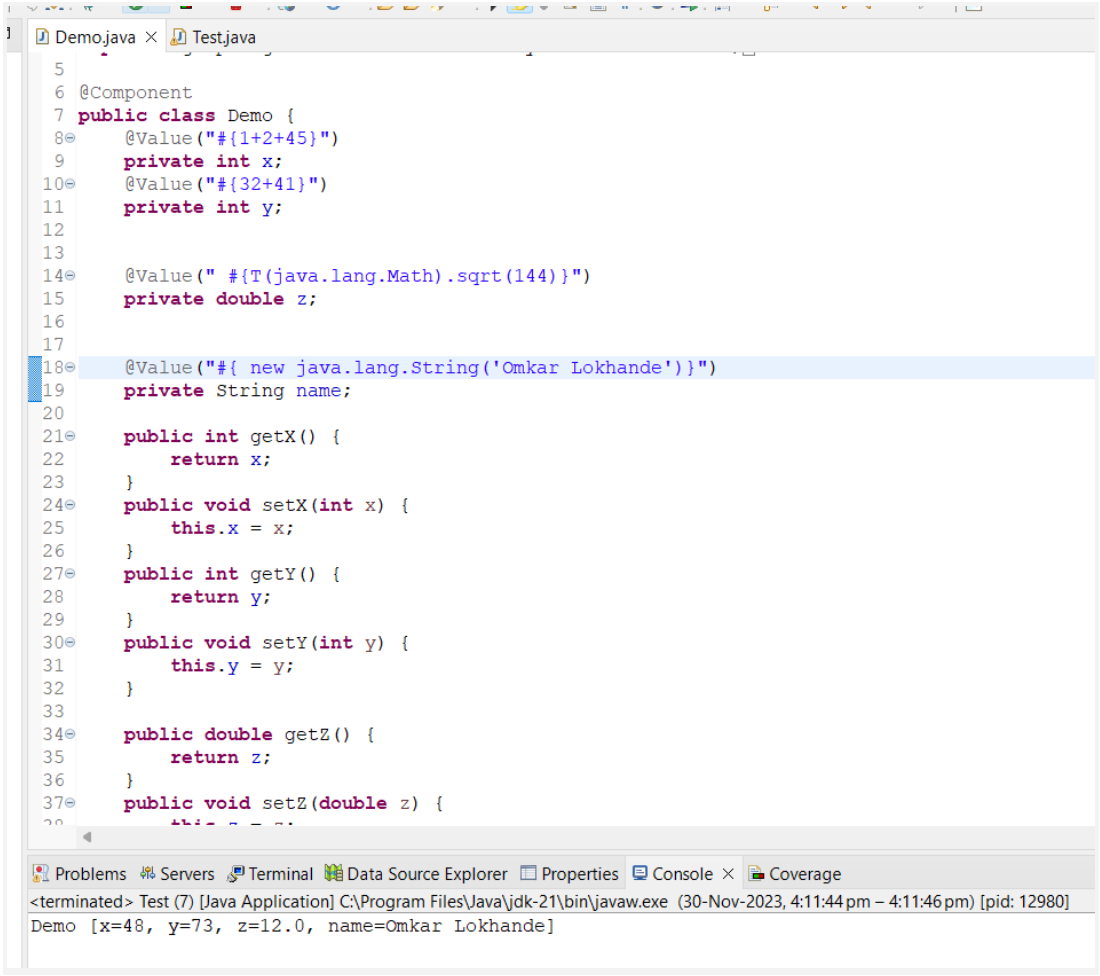
Calling Static Methods in Spring Expression Language: –

```
main/java/com/spring/spel/Demo.java - Eclipse IDE
roject  Run  Window  Help
Demo.java ×  Test.java
1  package com.spring.spel;
2
3  import org.springframework.beans.factory.annotation.Value;
5
6  @Component
7  public class Demo {
8      @Value("#{1+2+45}")
9      private int x;
10     @Value("#{32+41}")
11     private int y;
12
13
14     @Value(" #{T(java.lang.Math).sqrt(144)}")
15     private double z;
16
17     public int getX() {
18         return x;
19     }
20     public void setX(int x) {
21         this.x = x;
22     }
23     public int getY() {
24         return y;
25     }
26     public void setY(int y) {
27         this.y = y;
28     }
29
30     public double getZ() {
31         return z;
32     }
33     public void setZ(double z) {
34         this.z = z;
35     }

Problems  Servers  Terminal  Data Source Explorer  Properties  Console ×  Coverage
<terminated> Test (7) [Java Application] C:\Program Files\Java\jdk-21\bin\javaw.exe  (30-Nov-2023, 4:05:52 pm – 4:05:54 pm) [pid: 19280]
Demo [x=48, y=73, z=12.0]
```

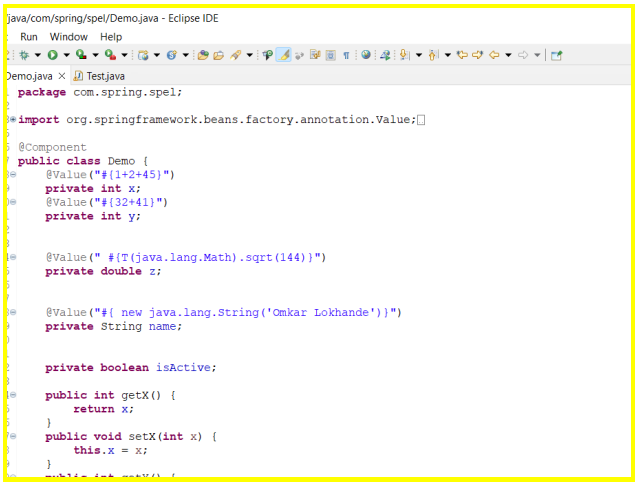


Create Object :



Spring Expression Language : (Boolan Type)

bt y default value of isactive is False



```
    public int getY() {
        return y;
    }
    public void setY(int y) {
        this.y = y;
    }

    public double getZ() {
        return z;
    }
    public void setZ(double z) {
        this.z = z;
    }
    @Override
    public String toString() {
        return "Demo [x=" + x + ", y=" + y + ", z=" + z + ", name=" + name + ", isActive=" + isActive + "]";
    }
```

Problems Servers Terminal Data Source Explorer Properties Console Coverage

<terminated> Test (7) [Java Application] C:\Program Files\Java\jdk-21\bin\javaw.exe (30-Nov-2023, 4:27:55 pm – 4:27:57 pm) [pid: 16060]

```
Demo [x=48, y=73, z=12.0, name=Omkar Lokhande, isActive=false]
```

We have to provide such expression that give result either True or False .

nain/java/com/spring/spel/Demo.java - Eclipse IDE

oject Run Window Help

Demo.java Test.java

```
1  package com.spring.spel;
2
3  import org.springframework.beans.factory.annotation.Value;
5
6  @Component
7  public class Demo {
8      @Value("#{1+2+45}")
9      private int x;
10     @Value("#{32+41}")
11     private int y;
12
13
14     @Value(" #{T(java.lang.Math).sqrt(144)}")
15     private double z;
16
17
18     @Value("#{ new java.lang.String('Omkar Lokhande')}")
19     private String name;
20
21     @Value("#{8>2}")
22     private boolean isActive;
23
24     public int getX() {
25         return x;
26     }
27     public void setX(int x) {
28         this.x = x;
29     }
30     public int getY() {
31         return y;
32     }
33     public void setY(int y) {
34         this.y = y;
35     }
```

Problems Servers Terminal Data Source Explorer Properties Console Coverage

<terminated> Test (7) [Java Application] C:\Program Files\Java\jdk-21\bin\javaw.exe (30-Nov-2023, 4:31:35 pm – 4:31:36 pm) [pid: 9020]

```
Demo [x=48, y=73, z=12.0, name=Omkar Lokhande, isActive=true]
```