PRACTICAL-11

Problem Statement Create a Struts based basic application which is used to calculate sum of two numbers.

 Files should be:

1- web.xml

2- struts.xml

3- SumAction.java

4- Input.jsp

5- Result.jsp

SOURCE CODE:

Web.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="http://java.sun.com/xml/ns/javaee"
xsi:schemaLocation="http://java.sun.com/xml/ns/javaee http://java.sun.com/xml/ns/javaee/web-app_3_0.xsd" id="WebApp_ID" version="3.0">
 <display-name>Practical11</display-name>
 <welcome-file-list>
   <welcome-file>Input.jsp</welcome-file>
   <welcome-file>default.html</welcome-file>
 </welcome-file-list>

 <filter>
             <filter-name>struts2</filter-name>
             <filter-class>org.apache.struts2.dispatcher.ng.filter.StrutsPrepareAndExecuteFilter</filter-class>
 </filter>

 <filter-mapping>
             <filter-name>struts2</filter-name>
             <url-pattern>/*</url-pattern>
 </filter-mapping>
</web-app>
```

Struts.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE struts PUBLIC
   "-//Apache Software Foundation//DTD Struts Configuration 2.0//EN"
   "http://struts.apache.org/dtds/struts-2.0.dtd">


<struts>
      <package name="Struts2Beginner" extends="struts-default">
      <action name="calculateSumAction"
      class="net.codejava.struts.SumAction"
      method="calculate">
                     <result name="success">/Result.jsp</result>
                     <result name="input">/Input.jsp</result>
      </action>
      </package>

</struts>
```

SumAction.java

```java
package net.codejava.struts;

 import com.opensymphony.xwork2.ActionSupport;

 public class SumAction extends ActionSupport{
        private int x;
        private int y;
        private int sum;

        public String calculate() {
                sum = x+y;
                 return SUCCESS;

        }

        public int getX() {
                return x;
        }

        public void setX(int x) {
                this.x = x;
```

```java
        }

        public int getY() {
                return y;
        }

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

        public int getSum() {
                return sum;
        }

        public void setSum(int sum) {
                this.sum = sum;
        }

 }
```

Input.jsp

```jsp
<%@ taglib prefix="s" uri="/struts-tags"  %>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
  pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>struts</title>
</head>
<body>
      <center>
              <h2>Calculate sum of two numbers</h2>
              <s:form action="calculateSumAction" method="post">
                      <s:textfield  name="x" size="10" label="Enter X"/>
                      <s:textfield  name="y" size="10" label="Enter Y"/>
                      <s:submit value="Calculate"/>
              </s:form>
      </center>
</body>
</html>
```
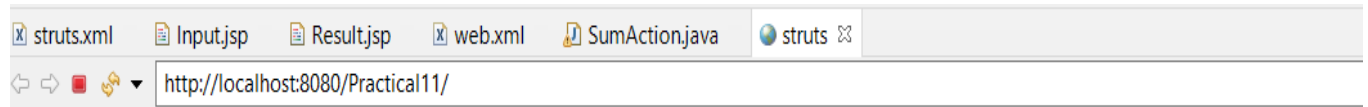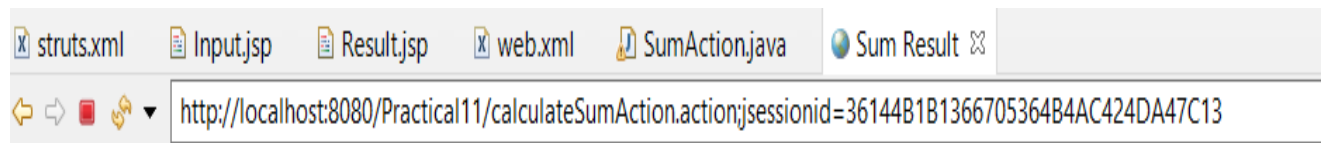
Result.jsp

```
<%@ taglib prefix="s" uri="/struts-tags" %>

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"

    pageEncoding="ISO-8859-1"%>

<!DOCTYPE html>

<html>

<head>

<meta charset="ISO-8859-1">

<title>Sum Result</title>

</head>

<body>

        Sum of <s:property value="x"/>

        and <s:property value="y"/>

        is:

        <s:property value="sum"/>

</body>

</html>
```

OUTPUT

Calculate sum of two numbers

Enter X: [   ]
Enter Y: [   ]

[Calculate]

Sum of 20 and 250 is: 270