# CREATE A JAVA PROGRAM TO DEMONSTRATE DEFAULT AND CUSTOM EVENTHANDLING.

## StartEventHandler.java

```
package com.ecommerce;
import org.springframework.context.ApplicationListener;
import org.springframework.context.event.ContextStartedEvent;
public class StartEventHandler implements ApplicationListener<ContextStartedEvent>{
      public void onApplicationEvent(ContextStartedEvent event) {
       System.out.println("ContextStartedEvent Received");
      }
}
CustomEvent.java
package com.ecommerce.beans;
import\ org. spring framework. context. Application Event;
public class CustomEvent extends ApplicationEvent{
          public CustomEvent(Object source) {
        super(source);
    public String toString(){
        return "This is a custom event";
CustomEventListener.java
package com.ecommerce.beans;
import org.springframework.context.ApplicationListener;
public class CustomEventListener implements
ApplicationListener<CustomEvent> {
    public void onApplicationEvent(CustomEvent event) {
        System.out.println(event.toString());
}
```

### CustomEventPublisher.java

```
package com.ecommerce.beans;
import org.springframework.context.ApplicationEventPublisher;
import org.springframework.context.ApplicationEventPublisherAware;
public \ class \ Custom Event Publisher \ implements \ Application Event Publisher Aware
   private ApplicationEventPublisher publisher;
   public void setApplicationEventPublisher (ApplicationEventPublisherpublisher) {
       this.publisher = publisher;
   public void publish() {
       CustomEvent ce = new CustomEvent(this);
       publisher.publishEvent(ce);
StopEventHandler.java
package com.ecommerce.beans;
import org.springframework.context.ApplicationListener;
import org.springframework.context.event.ContextStoppedEvent;
public class StopEventHandler implements ApplicationListener<ContextStoppedEvent>{
      public void onApplicationEvent(ContextStoppedEvent event) {
       System.out.println("ContextStoppedEvent Received");
      }
MainController
package com.ecommerce.controller;
import org.springframework.context.ApplicationContext;
import org.springframework.context.support.ClassPathXmlApplicationContext;
import org.springframework.stereotype.Controller;
import org.springframework.ui.ModelMap;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RequestMethod;
import com.ecommerce.beans.CustomEventPublisher;
```

```
@Controller public class MainController {
```

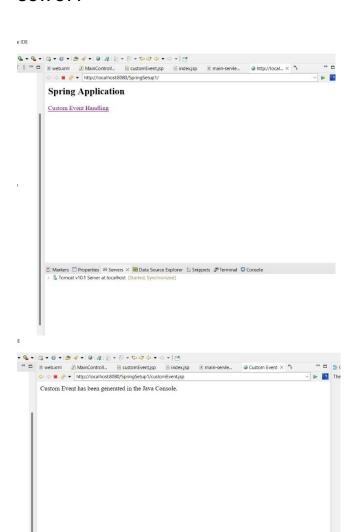
```
@RequestMapping(value = "/customevent", method = RequestMethod.GET)
      public String customEvent(ModelMap map)
      {
           String confFile = "main-servlet.xml";
        ApplicationContext context = new ClassPathXmlApplicationContext(confFile);
        CustomEventPublisher cvp =
             (CustomEventPublisher) context.getBean("customEventPublisher");
         cvp.publish();
         cvp.publish();
        return "customEvent";
      }
}
coustmEvent.jsp
<%@ page language="java" contentType="text/html; charset=UTF-8"</pre>
     pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Custom Event</title>
</head>
<body>
    Custom Event has been generated in the Java Console.
</body>
</html>
Index.jsp
<html>
<body>
<h2>Spring Application</h2>
<a href="customEvent.jsp">Custom Event Handling</a>
</body>
</html>
```

#### Main-servlet.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns="http://www.springframework.org/schema/beans"</pre>
     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
     xmlns:aop="http://www.springframework.org/schema/aop"
     xmlns:context="http://www.springframework.org/schema/context"
     xmlns:jee="http://www.springframework.org/schema/jee"
     xmlns:lang="http://www.springframework.org/schema/lang"
     xmlns:p="http://www.springframework.org/schema/p"
     xmlns:tx="http://www.springframework.org/schema/tx"
     xmlns:util="http://www.springframework.org/schema/util"
     xsi:schemaLocation="http://www.springframework.org/schema/beans"
http://www.springframework.org/schema/beans/spring-beans-2.5.xsd
http://www.springframework.org/schema/aop
http://www.springframework.org/schema/aop/spring-aop-2.5.xsd
http://www.springframework.org/schema/context
http://www.springframework.org/schema/context/spring-context-2.5.xsd
http://www.springframework.org/schema/tx http://www.springframework.org/schema/tx/spring-
tx-2.5.xsd">
     <context:annotation-config />
     <context:component-scan base-package="com.ecommerce.controller"/>
     <bean id="jspViewResolver"</pre>
class="org.springframework.web.servlet.view.InternalResourceViewResolver">
          property name="viewClass"
value="org.springframework.web.servlet.view.JstlView"></property>
          property name="prefix" value="/WEB-INF/view/">
          cproperty name="suffix" value=".jsp"></property>
     </bean>
     <bean id="messageSource"</pre>
class="org.springframework.context.support.ReloadableResourceBundleMessageS ource">
          cproperty name="defaultEncoding" value="UTF-8">
     </bean>
     <bean id = "startEventHandler" class =</pre>
"com.ecommerce.beans.StartEventHandler"/>
                   <bean id = "stopEventHandler" class =</pre>
            "com.ecommerce.beans.StopEventHandler"/>
     <bean id = "customEventListener" class =</pre>
"com.ecommerce.beans.CustomEventListener"/>
     <bean id = "customEventPublisher" class =</pre>
"com.ecommerce.beans.CustomEventPublisher"/>
     <tx:annotation-driven/>
</beans>
Web.xml
<!DOCTYPE web-app PUBLIC
 "-//Sun Microsystems, Inc.//DTD Web Application 2.3//EN"
 "http://java.sun.com/dtd/web-app_2_3.dtd" >
```

<web-app>
 <display-name>Archetype Created Web Application</display-name>
</web-app>

#### **OUTPUT:**



E Markers □ Properties <sup>48</sup> Servers × Be Data Source Explorer ☑ Snippets <sup>49</sup> Terminat □ Console > ¾ Tomcat vi0.1 Server at localhost (Started, Synchronized)