

Create a Java program to demonstrate default and custom event handling.

```
package com.example;
import org.springframework.context.ApplicationEvent;
public class CustomEvent extends ApplicationEvent {
    public CustomEvent(Object source) {
        super(source);
    }

    @Override
    public String toString() {
        return "Custom Event";
    }
}

package com.example;
import org.springframework.context.ApplicationEvent;
public class CustomEvent extends ApplicationEvent {
    public CustomEvent(Object source) {
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    @Override
    public String toString() {
        return "Custom Event";
    }
}

package com.example;
import org.springframework.context.ApplicationListener;
import org.springframework.context.event.ContextRefreshedEvent;
public class DefaultEventListener implements
ApplicationListener<ContextRefreshedEvent> {
    public void onApplicationEvent(ContextRefreshedEvent event) {
        System.out.println("Default Event Received");
    }
}

package com.example;
import org.springframework.context.support.AbstractApplicationContext;
import org.springframework.context.support.ClassPathXmlApplicationContext;
public class EventHandlingDemo {
    public static void main(String[] args) {
        AbstractApplicationContext context = new
ClassPathXmlApplicationContext("applicationContext.xml");

        // Registering custom event listener
        context.addApplicationListener(new CustomEventListener());

        // Publishing custom event
        context.publishEvent(new CustomEvent("Custom Event
Triggered"));

        // Publishing default event
```

```

        context.refresh();

        context.close();
    }
}

<?xml version="1.0" encoding="UTF-8"?>
<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"
       xsi:schemaLocation="http://www.springframework.org/schema/beans
                           http://www.springframework.org/schema/context
                           http://www.springframework.org/schema/beans/spring-beans.xsd
                           http://www.springframework.org/schema/context
                           http://www.springframework.org/schema/context/spring-context.xsd">

    <!-- Registering default event listener -->
    <bean class="com.example.DefaultEventListener" />

</beans>

<project xmlns="http://maven.apache.org/POM/4.0.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
    https://maven.apache.org/xsd/maven-4.0.0.xsd">
    <modelVersion>4.0.0</modelVersion>
    <groupId>spring2</groupId>
    <artifactId>eventhandling</artifactId>
    <version>0.0.1-SNAPSHOT</version>
    <dependencies>
        <!-- Spring Boot dependencies -->
        <dependency>
            <groupId>org.springframework.boot</groupId>
            <artifactId>spring-boot-starter</artifactId>
        </dependency>
    </dependencies>

    <dependencyManagement>
        <dependencies>
            <!-- Spring Boot starter parent -->
            <dependency>
                <groupId>org.springframework.boot</groupId>
                <artifactId>spring-boot-dependencies</artifactId>
                <version>2.5.0</version>
                <type>pom</type>
                <scope>import</scope>
            </dependency>
        </dependencies>
    </dependencyManagement>
</project>

```

## Output :

```
22:21:48.030 [main] DEBUG org.springframework.context.support.ClassPathXmlApplicationContext - Refreshing org.springframework.conte
22:21:48.250 [main] DEBUG org.springframework.beans.factory.xml.XmlBeanDefinitionReader - Loaded 1 bean definitions from class path
22:21:48.280 [main] DEBUG org.springframework.beans.factory.support.DefaultListableBeanFactory - Creating shared instance of single
Default Event Received
Custom Event Received: Custom Event
22:21:48.338 [main] DEBUG org.springframework.context.support.ClassPathXmlApplicationContext - Refreshing org.springframework.conte
22:21:48.359 [main] DEBUG org.springframework.beans.factory.xml.XmlBeanDefinitionReader - Loaded 1 bean definitions from class path
22:21:48.360 [main] DEBUG org.springframework.beans.factory.support.DefaultListableBeanFactory - Creating shared instance of single
Default Event Received
22:21:48.377 [main] DEBUG org.springframework.context.support.ClassPathXmlApplicationContext - Closing org.springframework.context.
```