Aim

To demonstrate the usage of JSTL Function Tags such as fn:length(), fn:toUpperCase(), fn:toLowerCase(), fn:contains(), fn:startsWith(), and fn:substring().

Technologies Used

JSP, JSTL (Functions Tag Library), Apache Tomcat

Directory Structure

```
JSTLFunctionDemo/
|
+- function-demo.jsp
+- WEB-INF/
    +- web.xml
    +- lib/
    +- jstl.jar
```

Required JARs (Place in WEB-INF/lib/)

jakarta.servlet.jsp.jstl-api-*.jar jakarta.servlet.jsp.jstl-impl-*.jar

function-demo.jsp

```
<%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
<%@ taglib prefix="fn" uri="http://java.sun.com/jsp/jstl/functions" %>
<head><title>JSTL Function Tag Demo</title></head>
<body>
<h2>JSTL Function Tag Examples</h2>
<c:set var="username" value="MadhuParvathaneni" />
Original String: ${username}
<!-- String length -->
Length: ${fn:length(username)}
<!-- Convert to upper case -->
Upper Case: ${fn:toUpperCase(username)}
<!-- Convert to lower case -->
Lower Case: ${fn:toLowerCase(username)}
<!-- Check if string contains -->
Contains 'Parva'? ${fn:contains(username, "Parva")}
<!-- Check if string starts with -->
Starts with 'Madhu'? ${fn:startsWith(username, "Madhu")}
<!-- Substring -->
Substring (0-5): fn:substring(username, 0, 5)
</body>
</html>
```

web.xml

How to Run

- 1. Download required JSTL JARs and place them in `WEB-INF/lib`.
- 2. Deploy the `JSTLFunctionDemo` folder in Tomcat's `webapps` directory.
- 3. Start Tomcat and visit: http://localhost:8080/JSTLFunctionDemo/function-demo.jsp

Expected Output

Original String: MadhuParvathaneni

Length: 18

Upper Case: MADHUPARVATHANENI Lower Case: madhuparvathaneni

Contains 'Parva'? true Starts with 'Madhu'? true Substring (0-5): Madhu

Result

Successfully demonstrated JSTL function tags to perform common string operations.