

## Phase-2 Practice Project: Assisted Practice

### 2. Write a program to demonstrate the function of JSP Implicit Objects

Index.jsp:

```
<%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>
<%@ page errorPage = "handle-error.jsp" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>JSP Implicit Objects</title>
</head>
<body>
<%
    String responseCheck = request.getParameter("office");
    if (responseCheck != null ) {
        response.setStatus(response.SC_MOVED_TEMPORARILY);
        response.setHeader("Location", "response-redirect.jsp?office=" + responseCheck);
    }

    String errorCheck = request.getParameter("error");
    if (errorCheck != null ) {
        int x = 0;
        if (x == 0)
            throw new RuntimeException("Exception has been raised");
    }
%>
<%
    int serverPort = request.getServerPort() ;
    out.println("The Server is running on port " + String.valueOf(serverPort) + "<br>");
    out.println("Servlet Name is " + config.getServletName() + "<br>");
    out.println("Server Info:" + application.getServerInfo() + "<br>");

    String pageName = page.toString();
    out.println("The name of the page is " + pageName + "<br>");

    pageContext.setAttribute("userid", "John Doe");
    out.println("userId attribute from pageContext: " + pageContext.getAttribute("userid") + "<br>");
%>
<a href="index.jsp?office=head_office">Show usage of response object</a><br>
<a href="index.jsp?error=1">Show usage of error object</a><br>
<%
    if (response.containsHeader("Office"))
        out.println("Current location is " + response.getHeader("Office"));
%>
</body>
</html>
```

Response-redirect.jsp:

```

<%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Get Header Example</title>
</head>
<body>
<%
    String office = request.getParameter("office");
    if (office != null)
        out.println("value of Office obtained :" + office + "<br>");
    else
        out.println("No value of Office found<br>");
%>
</body>
</html>

```

Handle-error.jsp:

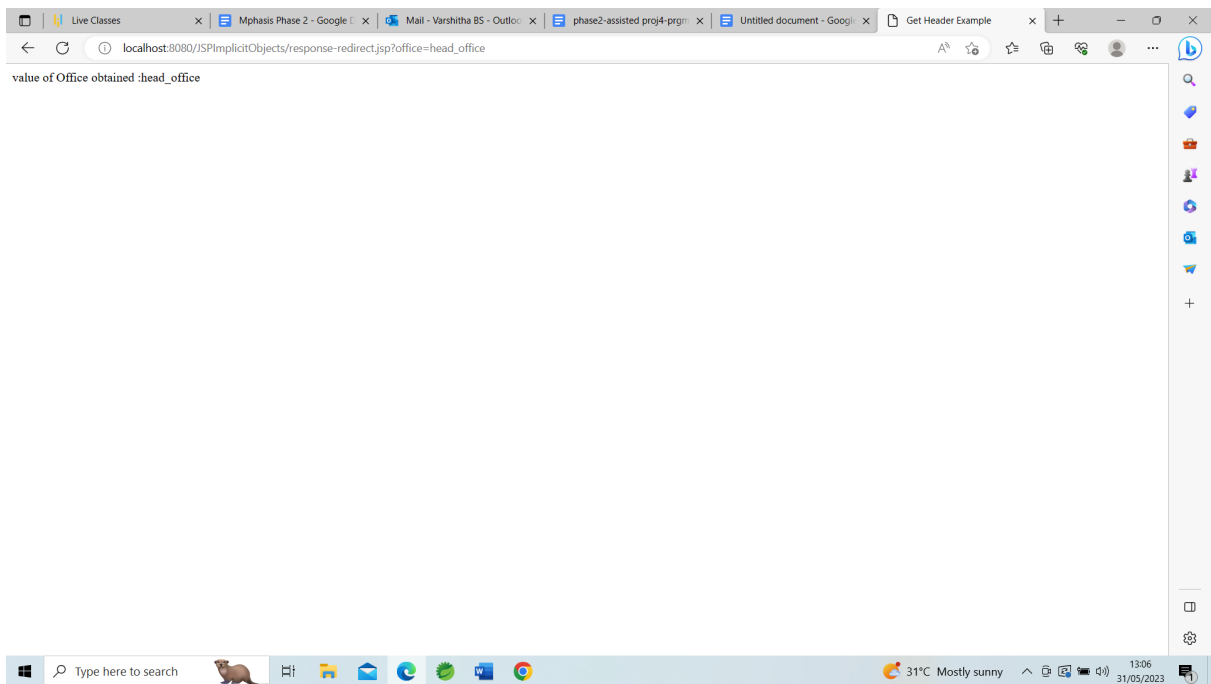
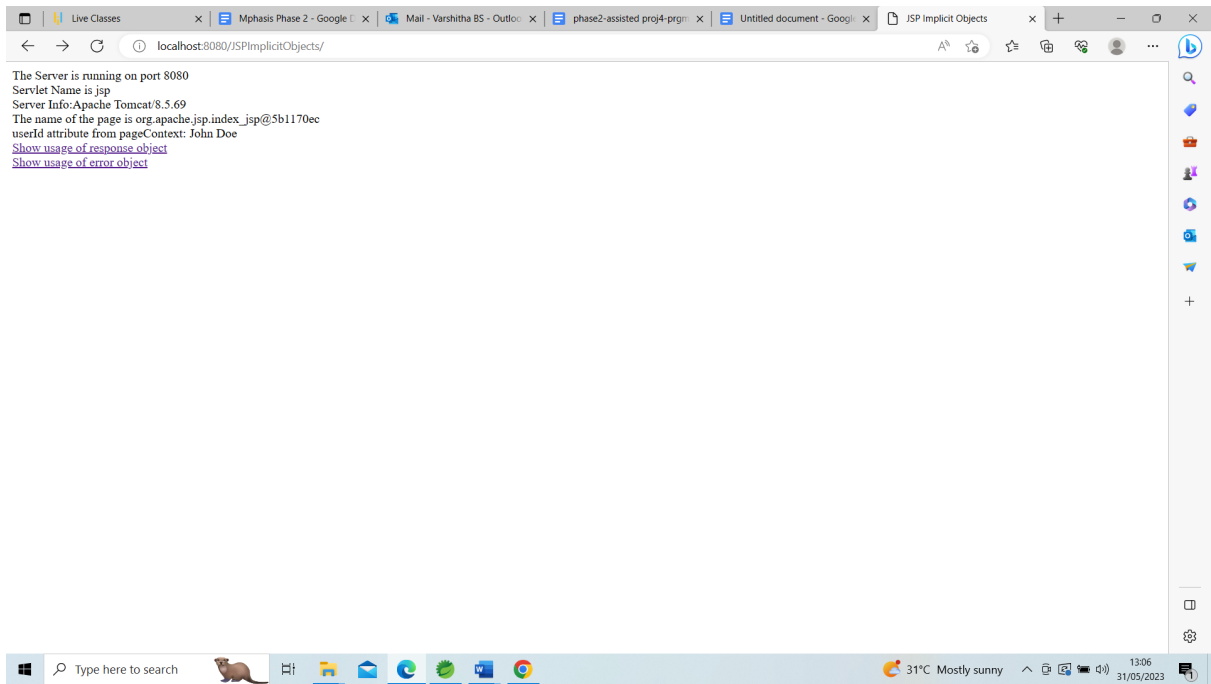
```

<%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"
isErrorPage = "true"%>

<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Error Handling page</title>
</head>
<body>
<% exception.printStackTrace(response.getWriter()); %>
<hr>
An exception was generated. Details are above:<br>
</body>
</html>

```

Output:



Windows taskbar showing search bar, taskbar icons (File Explorer, Mail, Edge, etc.), system tray (clock, weather, volume, etc.).