

## Practical no:- 22

Program code:-

```
1)
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
@WebServlet("/UsernameLengthServlet")
public class UsernameLengthServlet extends HttpServlet
{
    private static final long serialVersionUID = 1L;
    protected void doPost(HttpServletRequest request, HttpServletResponse
    response) throws ServletException, IOException
    {
        String username = request.getParameter("username"); // Calculate the
        length of the username 2
        int usernameLength = username.length(); // Set the response content
        type to plain text response.setContentType("text/plain"); // Get the
        PrintWriter to send the response PrintWriter out = response.getWriter();
        out.println(usernameLength); // Close the PrintWriter out.close();
    }
}
```

HTML CODE:-

```
<!DOCTYPE html>

<html>

<head>

<title>Username Length Client</title>

</head>

<body>

<form action="UsernameLengthServlet" method="post">
```

Username: <input type="text" name="username">

<input type="submit" value="Get Length">

</form>

</body>

</html>

Username:

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Exercise:-

1)

```
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
@WebServlet("/DataRetrievalServlet")
public class DataRetrievalServlet extends HttpServlet
{
    private static final long serialVersionUID = 1L;
    protected void doPost(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException
    {
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();
        listOption = request.getParameter("listOption");
        String radioOption = request.getParameter("radioOption");
        out.println("");
        out.println("Selected List Option: " + listOption + "");
        out.println("Selected Radio Button: " + radioOption + "");
        out.println("");
    }
}
```

HTML CODE:-

```
<!DOCTYPE html>

<html>

<head>

<title>Exam Results</title>

</head>

<body>

<form action="ExamResultServlet" method="post">

<label for="maths">Maths:</label>

<input type="text" id="maths" name="maths" required><br>

<label for="science">Science:</label>

<input type="text" id="science" name="science" required><br>

<label for="english">English:</label>

<input type="text" id="english" name="english" required><br>

<input type="submit" value="Submit">

</form>

</body>

</html>
```

Select an option from the list:

Select a radio button:

☒ Ritesh  
☐ Pratik  
☐ Atharva

**Selected List Option: cricket**

**Selected Radio Button: Radio1**

2)

```
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
@WebServlet("/ExamResultServlet")
public class ExamResultServlet extends HttpServlet
{
    private static final long serialVersionUID = 1L;
    protected void doPost(HttpServletRequest request, HttpServletResponse
    response) throws ServletException, IOException
    {
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();
        try
        {
            int maths = Integer.parseInt(request.getParameter("maths"));
            int science = Integer.parseInt(request.getParameter("science"));
            int english = Integer.parseInt(request.getParameter("english"));
            int totalMarks = maths + science + english;
            String result = (totalMarks >= 150) ? "Passed" : "Failed";
            out.println("");
            out.println("Exam Result:");
            out.println("Total Marks: " + totalMarks + "");
            out.println("Result: " + result + "");
            out.println("");
        }
        catch (NumberFormatException e)
        {
            out.println("Please enter valid marks for all subjects.");
        }
    }
}
```

Maths:	<input type="text" value="80"/>
Science:	<input type="text" value="80"/>
English:	<input type="text" value="80"/>
<input type="button" value="Submit"/>	

## Exam Result:

Total Marks: 240

Result: Passed