



Practical 5. Servlet - Session Management.

* index.html

```
<html>
  <head>
    <title> Start Page </title>
  </head>
  <body>
    <h1>Hello World! </h1>
    <form action = "examInfo" method = "GET">
      <input type = "text" name = "name" placeholder =
        "Enter Name"/> <br/>
      <input type = "text" name = "id" placeholder =
        "Enter Id"/> <br/>
      <input
        type = "text"
        name = "department"
        placeholder = "Enter Department"/> <br/>
      <input type = "Submit" value = "Next" name = "btn.next"/>
    </form>
  </body>
</html>
```



* examInfo.java

```
import java.io.IOException;
import java.io.PrintWriter;
import jakarta.servlet.ServletException;
import jakarta.servlet.annotation.WebServlet;
import jakarta.servlet.http.Cookie;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
```

```
@WebServlet(urlPatterns = {"examInfo"})
```

```
public class examInfo extends HttpServlet {
```

⑨ Override

```
protected void doGet(HttpServletRequest request,
                      HttpServletResponse response)
    throws ServletException, IOException {
    processRequest(request, response);
}
```

```
protected void processRequest(HttpServletRequest request,
                             HttpServletResponse response)
    throws ServletException, IOException {
```

```
    response.setContentType("text/html; charset=UTF-8");
```

```
    String nm, id, department;
```



```
try PrintWriter out = response.getWriter();  
nm = request.getParameter("name");  
id = request.getParameter("id");  
department = request.getParameter("department");
```

```
Cookie c1, c2, c3;  
c1 = new Cookie("nm", nm);  
c2 = new Cookie("id", id);  
c3 = new Cookie("dept", department);  
response.addCookie(c1);  
response.addCookie(c2);  
response.addCookie(c3);
```

```
out.println("<html>");  
out.println("<head>");  
out.println("<title>ExamInfo </title>");  
out.println("</head>");  
out.println("<body><form action=\"examResult\">");  
out.println("<h1>Student : " + nm + "</h1><br><br>");  
out.println("<center><b>Enter marks for
```

Six Subjects [out of 100]
 </center>
");

```
out.println("Enter marks for subject 1  
<input type = \"text\" name = \"subj1\"><br><br>")
```

```
out.println("Enter marks for subject 2  
<input type = \"text\" name = \"subj2\"><br><br>")
```

out.println

```
out.println("Enter marks for subject 3  
<input type = \"text\" name = \"subj3\"><br><br>")
```



out.println("Enter marks for subject 4");

<input type="text" name="subj4">

);

out.println("Enter marks for subject 5");

<input type="text" name="subj5">

);

out.println("Enter marks for subject 6");

<input type="text" name="subj6">

);

out.println("<input type = "Submit" value =");

"Generate Result">");

~~Final~~ out.println("</form></body>");

out.println("</html>");



* examResult.java

```
import java.io.IOException;
import java.io.PrintWriter;
import jakarta.servlet.ServletException;
import jakarta.servlet.annotation.WebServlet;
import jakarta.servlet.http.Cookie;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
```

④ WebServlet CuslPatterns = { "/examResult" })

```
public class examResult extends HttpServlet {
```

④ Override

```
protected void doGet ( HttpServletRequest request,
                      HttpServletResponse response )
                      throws ServletException, IOException {
```

```
processRequest ( request, response );
```

```
protected void processRequest ( HttpServletRequest request,
                               HttpServletResponse response )
                               throws ServletException, IOException {
```

```
response.setContentType ("text/html; charset=UTF-8");
```

```
try { PrintWriter out = response.getWriter(); }
```

```
int m1, m2, m3, m4, m5, m6;
float avg;
```



```
m1 = Integer.parseInt(Crequest.getParameter("subj1"));
m2 = Integer.parseInt(Crequest.getParameter("subj2"));
m3 = Integer.parseInt(Crequest.getParameter("subj3"));
m4 = Integer.parseInt(Crequest.getParameter("subj4"));
m5 = Integer.parseInt(Crequest.getParameter("subj5"));
m6 = Integer.parseInt(Crequest.getParameter("subj6"));
avg = (float) (m1 + m2 + m3 + m4 + m5 + m6) / 6;
char grade;
if (avg >= 90) {
    grade = 'A';
} else if (avg >= 70) {
    grade = 'B';
} else if (avg >= 60) {
    grade = 'C';
} else {
    grade = 'F';
}
```

```
Cookie[] c = request.getCookies();
out.println("<br>Name : " + c[0].getValue());
out.println("<br>Id : " + c[1].getValue());
out.println("<br>Department : " + c[2].getValue());
out.println("<html>");
out.println("<head>");
out.println("<title> ExamResult </title>");
out.println("</head>");
out.println("<body>");
out.println("<h1> Exam Result : " + grade
        + "</h1>");

out.println("</body>");
out.println("</html>");
```

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