

## ASSIGNMENT- 7 [SERVLET PROGRAM]

1. Write a servlet program to show the details of 5 students with marks of 5 subjects and compute the GPA

### student.html:

```
<html>
<body style="margin: 10%;font-family:Segoe Print; background-color: darkblue">

<h1 style="border:thick dotted white;margin:10px 100px 10px
100px;padding:10px"><font color="#ff0000"><center><big>Students
Details</big></font></center></h1>

<form action="Test" method="get">
<fieldset style="background-color: #B233FF">
<legend><b><i>Enter Student Details 1:</i><b></legend> Enter Roll
    No <input type="text" name="txtsno"><br><br>
Enter Name <input type="text" name="txtnm"><br><br> Enter
class <input type="text" name="txtclass"><br><br>
<fieldset style="background-color:#FF33B2">
<legend><b><i>Enter Student Marks Details :</i><b></legend>
    Subject 1 <input type="text" name="txtsub1"><br><br>
    Subject 2 <input type="text" name="txtsub2"><br><br>
    Subject 3 <input type="text" name="txtsub3"><br><br>
    Subject 4 <input type="text" name="txtsub4"><br><br>
    Subject 5 <input type="text" name="txtsub5"><br><br>
</fieldset>
</fieldset>

<fieldset style="background-color: #B233FF">
<legend><b><i>Enter Student Details 2:</i><b></legend>
    Enter Roll No <input type="text" name="2txtsno"><br><br> Enter
Name <input type="text" name="2txtnm"><br><br>
```

```
Enter class <input type="text" name="2txtclass"><br><br>
<fieldset style="background-color:#FF33B2">
<legend><b><i>Enter Student Marks Details :</i><b></legend>
    Subject 1 <input type="text" name="2txtsub1"><br><br>
Subject 2 <input type="text" name="2txtsub2"><br><br>
Subject 3 <input type="text" name="2txtsub3"><br><br>
Subject 4 <input type="text" name="2txtsub4"><br><br>
Subject 5 <input type="text" name="2txtsub5"><br><br>
</fieldset>
</fieldset>
```

```
<fieldset style="background-color: #B233FF">
<legend><b><i>Enter Student Details 3:</i><b></legend>
    Enter Roll No <input type="text" name="3txtsno"><br><br> Enter
Name <input type="text" name="3txtnm"><br><br>
Enter class <input type="text" name="3txtclass"><br><br>
<fieldset style="background-color:#FF33B2">
<legend><b><i>Enter Student Marks Details :</i><b></legend>
    Subject 1 <input type="text" name="3txtsub1"><br><br>
Subject 2 <input type="text" name="3txtsub2"><br><br>
Subject 3 <input type="text" name="3txtsub3"><br><br>
Subject 4 <input type="text" name="3txtsub4"><br><br>
Subject 5 <input type="text" name="3txtsub5"><br><br>
</fieldset>
</fieldset>
```

```
<fieldset style="background-color: #B233FF">
<legend><b><i>Enter Student Details 4:</i><b></legend>
    Enter Roll No <input type="text" name="4txtsno"><br><br> Enter
Name <input type="text" name="4txtnm"><br><br>
Enter class <input type="text" name="4txtclass"><br><br>
<fieldset style="background-color:#FF33B2">
<legend><b><i>Enter Student Marks Details :</i><b></legend>
    Subject 1 <input type="text" name="4txtsub1"><br><br>
Subject 2 <input type="text" name="4txtsub2"><br><br>
Subject 3 <input type="text" name="4txtsub3"><br><br>
Subject 4 <input type="text" name="4txtsub4"><br><br>
```

```

Subject 5 <input type="text" name="4txtsub5"><br><br>
</fieldset>
</fieldset>

<fieldset style="background-color: #B233FF">
<legend><b><i>Enter Student Details 5:</i><b></legend>
    Enter Roll No <input type="text" name="5txtsno"><br><br> Enter
Name <input type="text" name="5txtnm"><br><br>
Enter class <input type="text" name="5txtclass"><br><br>
<fieldset style="background-color:#FF33B2">
<legend><b><i>Enter Student Marks Details :</i><b></legend>
    Subject 1 <input type="text" name="5txtsub1"><br><br>
Subject 2 <input type="text" name="5txtsub2"><br><br>
Subject 3 <input type="text" name="5txtsub3"><br><br>
Subject 4 <input type="text" name="5txtsub4"><br><br>
Subject 5 <input type="text" name="5txtsub5"><br><br>
</fieldset>
</fieldset>
<div align=center>
<input type="submit" value="Result">
</div>
</form>
</body>
</html>

```

### **student.java:**

```

import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;
public class student extends HttpServlet
{
    public void doGet(HttpServletRequest req,HttpServletResponse res)throws
IOException,ServletException
    {
        int sno,s1,s2,s3,total,sno2,s12,s22,s32,total2, sno3,s13,s23,s33,total3,
sno4,s14,s24,s34,total4, sno5,s15,s25,s35,total5;
        int s4,s5,s44,s54,s43,s53,s42,s52,s45,s55;

```

```

String snm,sclass, snm2,sclass2, snm3,sclass3, snm4,sclass4, snm5,sclass5; float
per, per5,per2,per3,per4;
res.setContentType("text/html");
PrintWriter out=res.getWriter();
sno=Integer.parseInt(req.getParameter("txtsno"));
snm=req.getParameter("txtnm");
sclass=req.getParameter("txtclass");
s1=Integer.parseInt(req.getParameter("txtsub1"));
s2=Integer.parseInt(req.getParameter("txtsub2"));
s3=Integer.parseInt(req.getParameter("txtsub3"));
s4=Integer.parseInt(req.getParameter("txtsub4"));
s5=Integer.parseInt(req.getParameter("txtsub5"));
total=s1+s2+s3+s4+s5;
per=(total/50);
out.println("<html><body>");
out.print("<h2>Result of student</h2><br>");
out.println("<b><i>Roll No :</b></i>" +sno+"<br>");
out.println("<b><i>Name :</b></i>" +snm+"<br>");
out.println("<b><i>Class :</b></i>" +sclass+"<br>");
out.println("<b><i>Subject1:</b></i>" +s1+"<br>");
out.println("<b><i>Subject2:</b></i>" +s2+"<br>");
out.println("<b><i>Subject3:</b></i>" +s3+"<br>");
out.println("<b><i>Subject4:</b></i>" +s4+"<br>");
out.println("<b><i>Subject5:</b></i>" +s5+"<br>");

out.println("<b><i>Total :</b></i>" +total+"<br>");
out.println("<b><i>GPA :</b></i>" +per+"<br>");
if(per<5)
    out.println("<h1><i>Pass Class</i></h1>");
else if(per<5.5 && per>5)
    out.println("<h1><i>Second class</i></h1>");
else if(per>=5.5)
    out.println("<h1><i>Higher class</i></h1>");

sno2=Integer.parseInt(req.getParameter("2txtsno"));
snm2=req.getParameter("2txtnm");

```

```

sclass2=req.getParameter("2txtclass");
s12=Integer.parseInt(req.getParameter("2txtsub1"));
s22=Integer.parseInt(req.getParameter("2txtsub2"));
s32=Integer.parseInt(req.getParameter("2txtsub3"));
s42=Integer.parseInt(req.getParameter("2txtsub4"));
s52=Integer.parseInt(req.getParameter("2txtsub5"));
total2=s12+s22+s32+s42+s52;
per2=(total2/50); out.println("<html><body>");
out.print("<h2>Result of student</h2><br>");
out.println("<b><i>Roll No :</b></i>" +sno2+"<br>");
out.println("<b><i>Name :</b></i>" +snm2+"<br>");
out.println("<b><i>Class :</b></i>" +sclass2+"<br>");
out.println("<b><i>Subject1:</b></i>" +s12+"<br>");
out.println("<b><i>Subject2:</b></i>" +s22+"<br>");
out.println("<b><i>Subject3:</b></i>" +s32+"<br>");
out.println("<b><i>Subject4:</b></i>" +s42+"<br>");
out.println("<b><i>Subject5:</b></i>" +s52+"<br>");

out.println("<b><i>Total :</b></i>" +total2+"<br>");
out.println("<b><i>GPA :</b></i>" +per2+"<br>");
if(per2<5)
    out.println("<h1><i>Pass Class</i></h1>");
else if(per2<5.5 && per2>5)
    out.println("<h1><i>Second class</i></h1>");
else if(per2>=5.5)
    out.println("<h1><i>Higher class</i></h1>");

sno3=Integer.parseInt(req.getParameter("3txtsno"));
snm3=req.getParameter("3txtnm");
sclass3=req.getParameter("3txtclass");
s13=Integer.parseInt(req.getParameter("3txtsub1"));
s23=Integer.parseInt(req.getParameter("3txtsub2"));
s33=Integer.parseInt(req.getParameter("3txtsub3"));
s43=Integer.parseInt(req.getParameter("3txtsub4"));
s53=Integer.parseInt(req.getParameter("3txtsub5"));

```

```
total3=s13+s23+s33+s43+s53; per3=(total3/50);
out.println("<html><body>");
out.print("<h2>Result of student</h2><br>");
out.println("<b><i>Roll No :</b></i>" + sno3 + "<br>");
out.println("<b><i>Name :</b></i>" + snm3 + "<br>");
out.println("<b><i>Class :</b></i>" + sclass3 + "<br>");
out.println("<b><i>Subject1:</b></i>" + s13 + "<br>");
out.println("<b><i>Subject2:</b></i>" + s23 + "<br>");
out.println("<b><i>Subject3:</b></i>" + s33 + "<br>");
out.println("<b><i>Subject4:</b></i>" + s43 + "<br>");
out.println("<b><i>Subject5:</b></i>" + s53 + "<br>");
```

```
out.println("<b><i>Total :</b></i>" + total3 + "<br>");
out.println("<b><i>GPA :</b></i>" + per3 + "<br>");
if(per3<5)
    out.println("<h1><i>Pass Class</i></h1>");
else if(per3<5.5 && per3>5)
    out.println("<h1><i>Second class</i></h1>");
else if(per3>=5.5)
    out.println("<h1><i>Higher class</i></h1>");
```

```
sno4=Integer.parseInt(req.getParameter("4txtsno"));
snm4=req.getParameter("4txtnm");
sclass4=req.getParameter("4txtclass");
s14=Integer.parseInt(req.getParameter("4txtsub1"));
s24=Integer.parseInt(req.getParameter("4txtsub2"));
s34=Integer.parseInt(req.getParameter("4txtsub3"));
s44=Integer.parseInt(req.getParameter("4txtsub4"));
s54=Integer.parseInt(req.getParameter("4txtsub5"));
total4=s14+s24+s34+s44+s54;
per4=(total4/50); out.println("<html><body>");
out.print("<h2>Result of student</h2><br>");
out.println("<b><i>Roll No :</b></i>" + sno4 + "<br>");
out.println("<b><i>Name :</b></i>" + snm4 + "<br>");
out.println("<b><i>Class :</b></i>" + sclass4 + "<br>");
out.println("<b><i>Subject1:</b></i>" + s14 + "<br>");
out.println("<b><i>Subject2:</b></i>" + s24 + "<br>");
out.println("<b><i>Subject3:</b></i>" + s34 + "<br>");
out.println("<b><i>Subject4:</b></i>" + s44 + "<br>");
out.println("<b><i>Subject5:</b></i>" + s54 + "<br>");
out.println("<b><i>Total :</b></i>" + total4 + "<br>");
out.println("<b><i>GPA :</b></i>" + per4 + "<br>");
if(per4<50)
    out.println("<h1><i>Pass Class</i></h1>");
```

```

        else if(per4<55 && per4>50)

out.println("<h1><i>Second class</i></h1>"); else
if(per4>=55)
    out.println("<h1><i>Higher class</i></h1>");

    sno5=Integer.parseInt(req.getParameter("5txtsno"));
    snm5=req.getParameter("5txtnm");
    sclass5=req.getParameter("5txtclass");
    s15=Integer.parseInt(req.getParameter("5txtsub1"));
    s25=Integer.parseInt(req.getParameter("5txtsub2"));
    s35=Integer.parseInt(req.getParameter("5txtsub3"));
    s45=Integer.parseInt(req.getParameter("5txtsub4"));
    s55=Integer.parseInt(req.getParameter("5txtsub5"));
    total5=s15+s25+s35+s45+s55; per5=(total5/50);
    out.println("<html><body>");
    out.print("<h2>Result of student</h2><br>");
    out.println("<b><i>Roll No :</b></i>" +sno5+"<br>");
    out.println("<b><i>Name :</b></i>" +snm5+"<br>");
    out.println("<b><i>Class :</b></i>" +sclass5+"<br>");
    out.println("<b><i>Subject1:</b></i>" +s15+"<br>");
    out.println("<b><i>Subject2:</b></i>" +s25+"<br>");
    out.println("<b><i>Subject3:</b></i>" +s35+"<br>");
    out.println("<b><i>Subject4:</b></i>" +s45+"<br>");
    out.println("<b><i>Subject5:</b></i>" +s55+"<br>");

    out.println("<b><i>Total :</b></i>" +total5+"<br>");
    out.println("<b><i>GPA :</b></i>" +per5+"<br>");
    if(per5<50)
        out.println("<h1><i>Pass Class</i></h1>");
    else if(per5<55 && per5>50)
        out.println("<h1><i>Second class</i></h1>");
    else if(per5>=55)
        out.println("<h1><i>Higher class</i></h1>");

out.close();

}}

```

### **Web.xml:**

```

<?xml version="1.0" encoding="ISO-8859-1"?>
<web-app>
<servlet>
<servlet-name>student</servlet-name>
<servlet-class>student</servlet-class>

```

```

</servlet>
<servlet-mapping>
<servlet-name>student</servlet-name>
<url-pattern>/Test</url-pattern>
</servlet-mapping>
</web-app>

```

### Output:

**Students Details**

Enter Student Details 1:

Enter Roll No:

Enter Name:

Enter class:

Enter Student Marks Details:

Subject 1:

Subject 2:

Subject 3:

Subject 4:

Subject 5:

Enter Student Details 2:

Enter Student Details 2:

Enter Roll No:

Enter Name:

Enter class:

Enter Student Marks Details:

Subject 1:

Subject 2:

Subject 3:

Subject 4:

Subject 5:

Enter Student Details 3:

Enter Roll No:

Enter Name:

Enter class:



### Result of student

Roll No :9  
Name :ziva  
Class :3  
Subject1:98  
Subject2:67  
Subject3:89  
Subject4:98  
Subject5:97  
Total :449  
GPA :8.0

### Pass Class

### Result of student

Roll No :21  
Name :jack  
Class :1  
Subject1:76  
Subject2:54  
Subject3:67  
Subject4:65  
Subject5:55  
Total :317  
GPA :6.0

### Pass Class

---

### Result of student

Roll No :1705003  
Name :sofi  
Class :2  
Subject1:90  
Subject2:97  
Subject3:95  
Subject4:34  
Subject5:56  
Total :372  
GPA :7.0

### Higher class

### Result of student

Roll No :5  
Name :ari  
Class :1  
Subject1:67  
Subject2:76  
Subject3:50  
Subject4:40  
Subject5:56  
Total :289  
GPA :5.0

### Result of student

2. Write a html page (form) that asks for a hobby and a name and Write a servlet that collects the name and hobby and returns a list of other people with the same hobby.

### index.html:

```
<html>
<body style="margin: 15%;font-family:Segoe Print;background-color: #CB6FFF">
<h1 style="border:thick dotted #232247;margin:10px 100px 10px
100px;padding:10px"><font
color="#ff0000"><center><big>HOBBY</big></font></center></h1>

<form action="Test" method="get">
<h1 style="font-size:20pt;color:black">Person 1</h1>
<label><font color="#232247" size="5"><b>Name: <input type="text" value=""
name="name"/></b></font></label><br>
```

```

<label><font color="#232247" size="5"><b>Hobby: <input type="text" value=""
name="hobby"/></b></font></label><br>
<h1 style="font-size:20pt;color:black">Person2</h1>
<label><font color="#232247" size="5"><b>Name: <input type="text" value=""
name="name1"/></b></font></label><br>
<label><font color="#232247" size="5"><b>Hobby: <input type="text" value=""
name="hobby1"/></b></font></label><br>
<h1 style="font-size:20pt;color:black">Person3</h1>
<label><font color="#232247" size="5"><b>Name: <input type="text" value=""
name="name2"/></b></font></label><br>
<label><font color="#232247" size="5"><b>Hobby: <input type="text" value=""
name="hobby2"/></b></font></label><br>
<center><input type="submit" value="Submit"/></center>

</form>

</body>
</html>

```

### **DemoServ.java:**

```

import javax.servlet.http.*;
import javax.servlet.*;
import java.io.*;
public class DemoServ extends HttpServlet{
    public void doGet(HttpServletRequest req,HttpServletResponse res)throws
    ServletException,IOException
    {
        res.setContentType("text/html");
        PrintWriter pw=res.getWriter();
        String name=req.getParameter("name");
        String hobby=req.getParameter("hobby");
        pw.println("<html><body>");
        pw.println("Welcome "+name+" Your Hobby is "+hobby+"<br>");
        String name1=req.getParameter("name1");
        String hobby1=req.getParameter("hobby1");
        pw.println("Welcome "+name1+" Your Hobby is "+hobby1+"<br>");
        String name2=req.getParameter("name2");
        String hobby2=req.getParameter("hobby2");
        pw.println("Welcome "+name2+" Your Hobby is "+hobby2+"<br>");

        if(hobby.equals(hobby1)==true)
        {
            pw.println("<h1><i>Hello "+name+" Your Hobby matches with
            "+name1+"<br><h1><i>");

```

```

}
if(hobby1.equals(hobby2)==true)
{
pw.println("Hello "+name1+" Your Hobby matches with "+name2+"<br><h1><i>");
}
if(hobby.equals(hobby2)==true)
{
pw.println("Hello "+name+" Your Hobby matches with "+name2+"<br><h1><i>");
}
}}

```

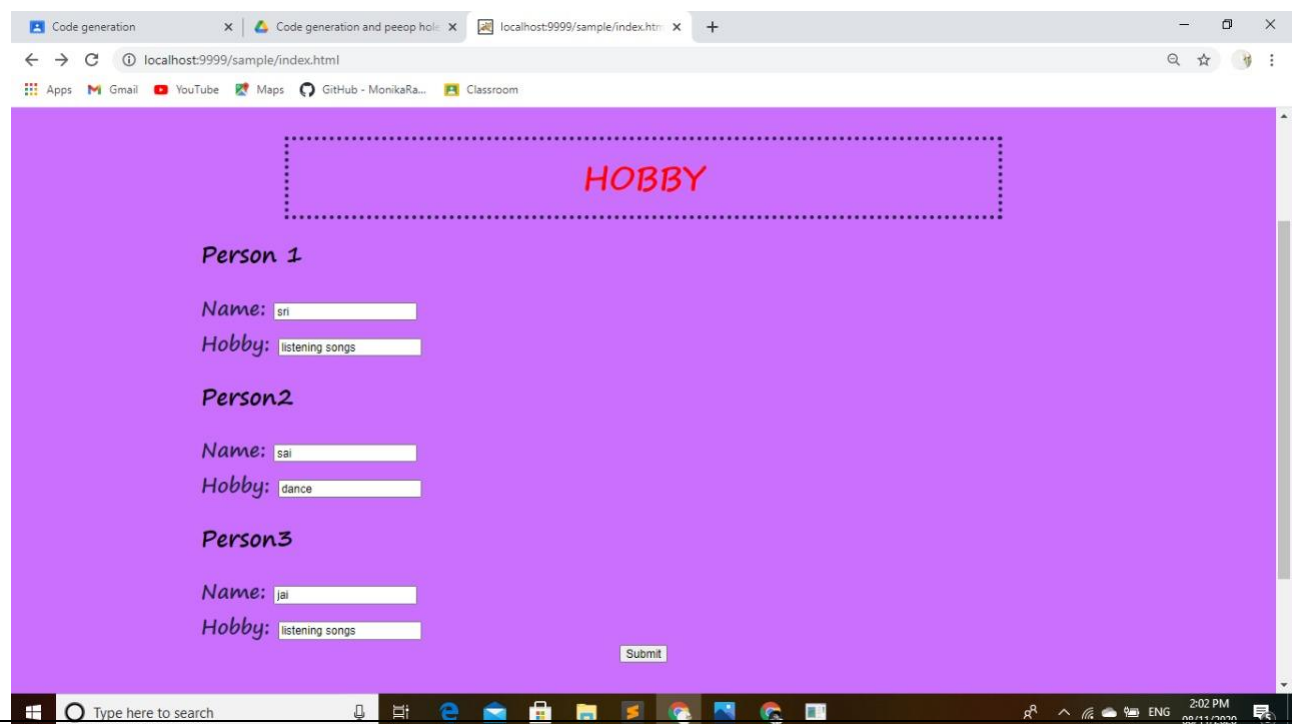
### **web.xml:**

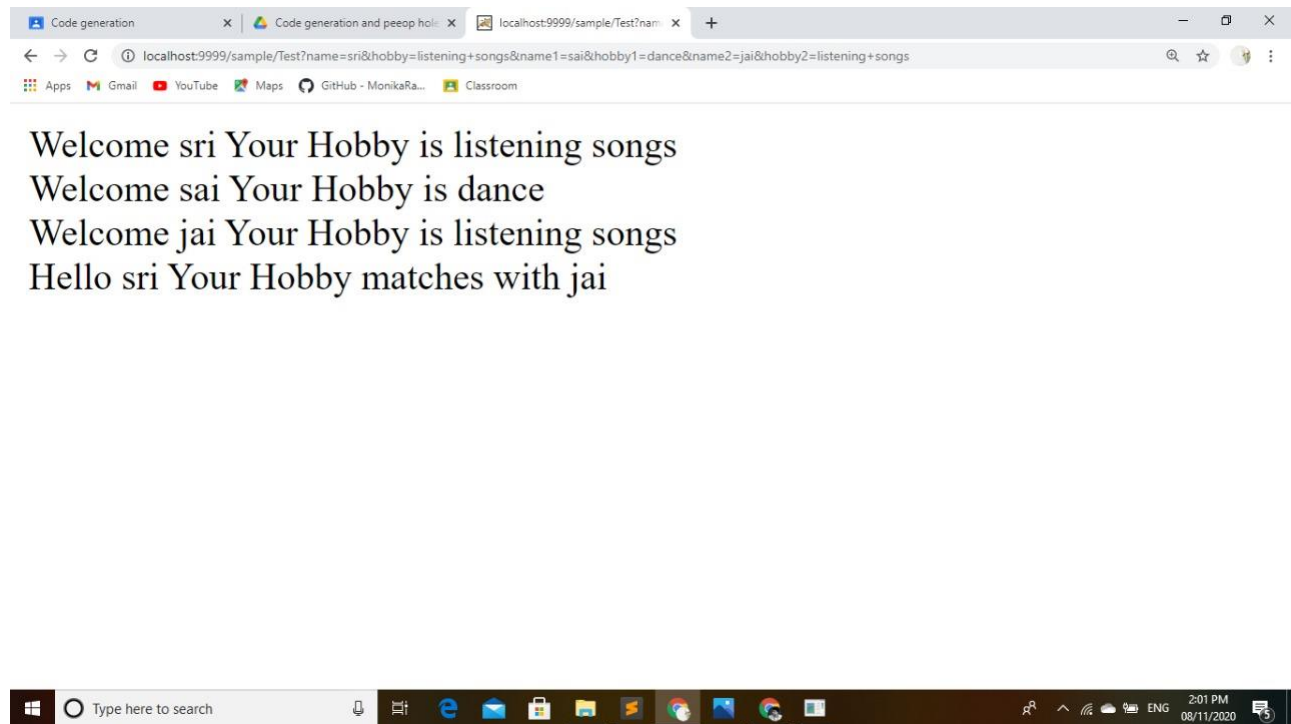
```

<web-app>
<servlet>
<servlet-name>sample</servlet-name>
<servlet-class>DemoServ</servlet-class>
</servlet>
<servlet-mapping>
<servlet-name>sample</servlet-name>
<url-pattern>/Test</url-pattern>
</servlet-mapping>
</web-app>

```

### **Output:**





## RESULT

Thus, the implementation Servlets programs executed success.

## ASSIGNMENT – 8 [JSP PROGRAMS]

1. Write a JSP program to store the e-bookshop management and display it.

**book.jsp:**

```
<html>
<head>
<title> EBook Management Shop</title>
</head>
<body style="margin: 10%;font-family:calibri
Print;background-image:url(p1.jpg);
background-size:100%150%;
background-repeat:no-r epeat">
<h1 style="border:thick dotted #232247;margin:10px 100px 10px 100px;padding:10px"> <font
color="#ff0000"><center><big>EBook Management Shop</big></font></center></h1>
<%
    double i=111.1;
    int q=1;
%>
    <table border=4 align="center">
    <tr>
    <td Style="color:#B20097"><b>Id</b></td><td
Style="color:#B20097"><b>Title</b></td><td
Style="color:#B20097"><b>Author</b></td><td
Style="color:#B20097"><b>Price</b></td><td
Style="color:#B20097"><b>Qty</b></td>
    </tr>
    <tr>
    <td><b><%=1001%></b></td><td><b>Java for dummies</b></td><td><b>Tan Ah
Teck</b></td><td><b><%=i%></b></td><td><b><%=q%></b></td>
    </tr>

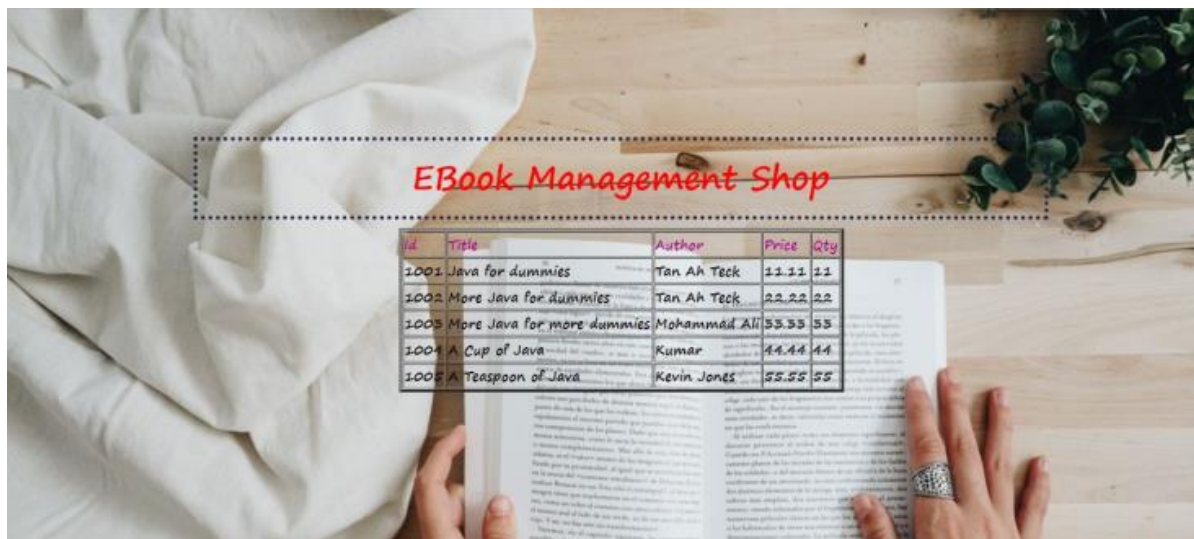
    <tr>
    <td><b><%=1002%></b></td><td><b>More Java for
dummies</b></td><td><b>Tan Ah
Teck</b></td><td><b><%= (i*2)%></b></td><td><b><%= (q*2)%></b></td>
    </tr>
    <tr>
    <td><b><%=1003%></b></td><td><b>More Java for more
dummies</b></td><td><b>Mohammad
Ali</b></td><td><b><%= (i*3)%></b></td><td><b><%= (q*3)%></b></td>
    </tr>
```

```

<tr>
  <td><b><%=1004%></b></td><td><b>A Cup of
Java</b></td><td><b>Kumar</b></td><td><b><%= (i*4)%></b></td><td><b><%= (q
*4)%></b></td>
</tr>
<tr>
  <td><b><%=1005%></b></td><td><b>A Teaspoon of
Java</b></td><td><b>Kevin
Jones</b></td><td><b><%= (i*5)%></b></td><td><b><%= (q*5)%></b></td>
</tr>
</table>
</body>
</html>

```

## OUTPUT:



2. Write a JSP program to generate a set of random numbers based on the user's input. The user is requested to enter the maximum number and the minimum number along with the number of trails. A set of random numbers are generated and the percentage of their appearance is calculated and displayed.

**random.html:**

```

<html>
<style>
.btn {
  background-color: #232247;
  border: none;
  color: white; padding:
16px 32px; text-align:
center; font-size:
16px; margin: 4px

```

```
2px; transition: 0.3s;
}
```

```
.btn:hover {
  background-color: #9199FF;
  color: brown;
}
```

```
</style>
```

```
<body style="margin: 10%;font-family:Segoe
```

```
Print;background-image:url(bg.jpg);background-size:100% 150%;background-repeat:no-r epeat">
```

```
<h1 style="border:thick dotted #232247;margin:10px 100px 10px 100px;padding:10px"><font
color="#ff0000"><center><big>Random Number Generator</big></font></center></h1>
```

```
<form action="random.jsp">
```

```
<br><br><br>
```

```
<label style="color:rgb(77, 51, 25);font-size:30px;margin-left: 100px">Maximum number :
```

```
</label><input type="text" name="val"><br><br><br>
```

```
<label style="color:rgb(77, 51, 25);font-size:30px;margin-left: 100px">Minimum
number : </label><input type="text" name="val1"><br><br><br>
```

```
<center><button class="btn"><font size="+2"><input type="submit"
value="Submit"></font></button></center>
```

```
</form>
```

```
</body>
```

```
</html>
```

### **random.jsp:**

```
<% @page import= "java.util.Random" %>
```

```
<% @page contentType="text/html" pageEncoding="UTF-8"%>
```

```
<!DOCTYPE html>
```

```
<html>
```

```
<head><title>Random Number Generator</title></head>
```

```
<body style="margin: 10%;font-family:Segoe
```

```
Print;background-image:url(bg.jpg);background-size:100% 150%;background-repeat:no-r epeat">
```

```
<h1 style="border:thick dotted #232247;margin:10px 100px 10px
100px;padding:10px"><font color="#ff0000"><center><big>Random Number
Generator</big></font></center></h1>
```

```
<%
```

```
String str; long
```

```
max,min,i;
```

```
str = request.getParameter("val");
```

```
max = Long.parseLong(str);
```

```
str= request.getParameter("val1");
```

```
min = Long.parseLong(str);
```

```
i = min + (long)(Math.random() * ((max - min) + 1));
```

```
%>
<center><h2>Random number</h2></center><center><p><big><b><%= i
%></b></big></p></center>
</body>
</html>
```

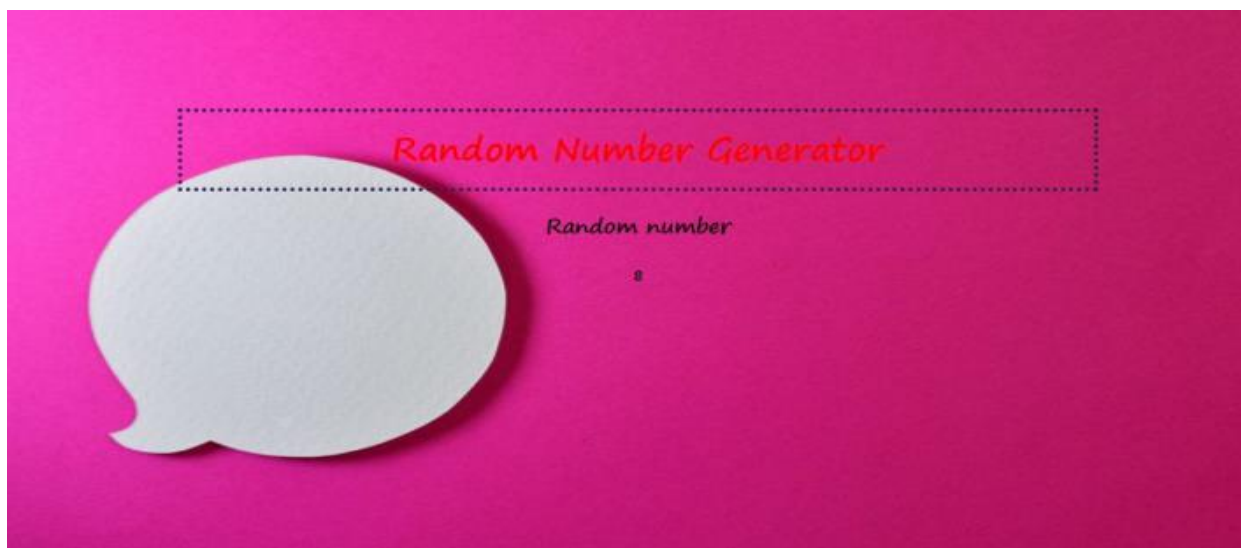
### Output:



Random Number Generator

Maximum number

Minimum number :

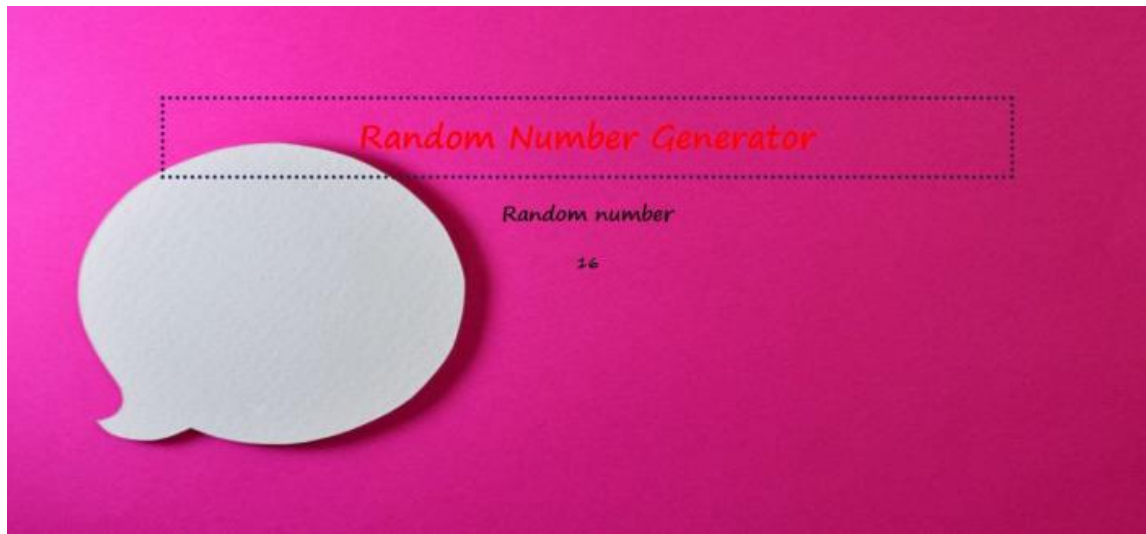


Random Number Generator

Random number

8





**Result :**

Thus, the implementation Servlets programs executed success.