```java
tphone.setText(rr.getString(3));
temail.setText(rr.getString(4));
}
catch(Exception ex)
{
    system.out.println(ex);
}
}

public void refresh()
{
    try
    {
        rr = stm.executeQuery("select * from phone");
        rr.next();
        display();
        psmt.close();
    }
    catch(Exception ex)
    {
        system.out.println(ex);
    }
}

class Asr2b.2
{
    public static void main(String a[])
    {
        new myFrame();
    }
}
```
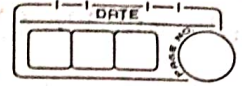
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Gautam

08/10/2024

* Set A

1] Design a servlet that provides information about a HTTP request from a client, such as IP address and browser type. The servlet also provides information about the server on which the servlet is running, such as the operating system type, and the names of currently loaded services.

→

```
import java.io.*;
import jakarta.servlet.*;
import jakarta.servlet.Http.*;
class Ass5A1 extends HttpServlet
{
    public void doGet (HttpServletRequest request,
    ServletResponse response) throws IOException Servlet
Exception ?
    response.setContentType ("text/html");
    printWriter.out = response.getWriter ();
    out.println ("<html> <body> ").
out.println ("<h3> Request Information Example </h3>").
    out.println (" method Name "+ request.getmethod ()+"<br>");
    out.println ("local name : "+request.getlocalName()+ "<br>").
    out.println ("Server Name : "+request.getserverName()+"<br>").
    out.println (" Ip Address : "+request.getlocalAddr()+"<br>");
    out.println ("Servlet Name : "+this.getServerName()+"<br>");
    out.println ("Remote Address : "+request.getRemoteAddr()+"<br>");
    java.util.properties P = System.getProperties ();
```

```
out.println("Operating System Type :"+ P.getPropert("os.name");
out.println("</body></html>");
}
}
```

2) Write a servlet which counts how many times a user has visited a web page. If the user is visiting the page for the first time, display a welcome message. If the user is re-visiting the page, display the number of times visited. (Use cookies)

→
```
import java.io.*;
import jakarta.servlet.*;
import jakarta.servlet.http.*;

public class Ass5A2 extends HttpServlet
{
    public void service (HttpServletRequest request,
    HttpServletResponse response) throws ServletException,
    IOException
    {
        int i=0, cnt =0;
        res.setcontentType ("text/html");
        printWriter out = res.getWriter();
        out.println("<html> <body>");
        cookie Cookies [] = req.getcookies ();
        if (Cookies !=null)
        {
            for (i=0; i< cookies.length ; i++)
                if (Cookies.[i].getName(); equals ("counter"))
                {
                    cnt= Integer. ParseInt (Cookies [i].getValue());
                    cnt++;
                    out.println("Number of Times Visited =" +cnt);
                }
        }
    }
    else
    {
```

```
    out. psintln ("Welcome user!!!");
        cnt = 1;
    }
Cookie c = new cookie ("counter". Integer. tostring
                                    (cnt));
    ree. addcookie(c);
    out. psintln ("</body> </html>");
    }
}
```

3] Design an HTML page which parses student roll number to a search servlet. The servlet searches for the roll number in a database (student table) and returns student details if found or error message otherwise.

→

```
import java. io. *;
import java. sql. *;
import jakarta. Servlet. *;

public class Ass5sctA3 extends HttpServlet
{
    Connection cn;
    Statement stm;
    ResultSet rs;

    public void service (HttpServlet Request request,
    HttpServlet. Response res) throws IOException,
```

```java
ServletException
{
    res.setContentType("text/html");
    printWriter pw = res.getWriter();

    pw.println("<HTML><HEAD><TITLE> Database connectivity
        </title></HEAD>");
    pw.println("<BODY>");
    pw.println("<P align = center> <BIG> Data from database
        </BIG></P>");
    pw.println("<Table align = center border = 1>");
    pw.println("<#TR>");
    pw.println("<TH> Roll Number <ITH><TH> Name <ITH>
        <TH> Age <ITH> </TR>");

    try {
        int roll = Integer.ParseInt(req.getParameter("txtj"));
        cn = DriverManager.getConnection("Jdbc:mysql://
        localhost:3333/my_db", user ="root". Password ="root");
    rs = stm.executeQuery("Select * from student where roll="
                    "+roll);

        rs.next();
        pw.println("<TR>");
        pw.println("<TD>"+rs.getString(01)+"</TD>");
        pw.println("<TD>"+rs.getString(02)+"</TD>");
        pw.println("<TD>"+rs.getString(03)+"</TD>");
        pw.println("</TR>");
        rs.close();    stm.colse();    cn.close();
    }

    catch(Exception e)
    {
        pw.println("<TR><TD  colspan =3> Student Info. Not
        Found "</TD></TR>");
    }
    pw.println("</Table></BODY><IHTML>");
    pw.close();
}
;
```

HTML Page

```
<html>
<body>
<center>
<form name = "form1" method = "POST"
action = "http: //localhost: 9090 /example/servlet/ servlet /
        Assignment5AB").
    Enter student Roll No:
<Input type = textbox name = "text1"><Br><br>
<input type = submit value = "submit">
    </center>
    </Form>
    </body>
    </html>
```

✱ ## Set B

1) Write a Program to create a shopping mall. User must be allowed to do purchase from two pages. Each page should have a page total. The third page should display a bill, which consists of a page total of what ever the purchase has been done and print the total. (use HttpSession)

→ Page1 servlet.java

```
import java.io.*;
import jakarta.servlet.*;
```

```java
import jakarta.servlet.http.*;

public class PageJservlet extends HttpServlet
{
  public void doGet (HttpServletRequest req, HttpServlet
  Response rer) throwr servletException , IOException
  {
    int sum=0;
    string [] values = req. get Parameter values ("item");
    if(values ! = null)
    {
      for (int i=0; i<values.length ;i++)
      sum = sum + Integer. ParseInt (valuesB[i]);
    }
    Http session hs = req.getsession.(true);
      hs. setAttribute ("Pages". sum);
      rs .send Redirect ("Page2.html").
  }
}
```

Page1.html

```html
<html> <head> <title> Pages </title> </head>
  <body>
<form method="GET" Action="http:localhost:9090/examples/
     servlets /servlet /Page /servlet ">
<input type=checkbox name="item" value=100>
                    Book 100 <br>
<input type= checkbox name ="item" value =200>
                    CD 200 <br>
<input type=checkbox name ="item" value = 300)
                    Tope 300<br>
<input type = submit>
   <input type = reset>
</form> </body> </html>
```

Page 2. html

```html
<html> <head> <title> Page 2 </title> </HEAD>
<body>
 <form method ="GET" Action ="http://localhost:8888/
   examples/servleta/servlet/Page2 servlet">
 <input type= checkbox  name = "item"  value = 10000>
             Psinter 10000 <br>
 <input type = checkbox name = "item" value = 200>
             Pen drive  200 <br>
 <input type = checkbox name = "item" value = 15000>
           camera 15000 <br>
 <input type = submit >
 <input type = reset>
 </form> </body> </html>
```

Page 2 servlet .java

```java
import java.io.*;
import jakarta.servlet.*;
import jakarta.servlet.http.*;
class Page2servlet extende Httpservlet {
    public void doGet (HttpservletRequest req.
  HttpServletResponse res) throws  servletException
  IoException {
    res.setContentType ("text\html");
      printWriter.out = res.getWriter ();
        int sum 2 = 0;
    steing [] values  = req. getParameter values ("item");
```

```java
    if (values != null)
    {
        for (int i=0; i<values.length; i++)
            sum2 = sum2 + Integer.parseInt(values[i]));
    }
    HttpSession s = req.getSession();
    int sum1 = ((integer) hs.getAttribute("Page 1")).int
            values();
    out.println("<HTML>");
    out.println("<B7 Total of Page 1 = "+sum1+"\n <BR>");
    out.println("<B> Total of Page 2 = "+sum2+"\n<BR><BR>");
    int total = sum1 + sum2;
    out.println("<B> Total Bill = "+total);
    out.println("<IBODY> <IHTML>");
    }
}
```

2] Design an HTML page containing 4 option buttons (Painting, Drawing, Singing and swimming) and 2 buttons reset and submit. When the user clicks submit, the server responds by adding a cookie containing the selected hobby and sends a message back to the client. Program should not allow duplicate cookies to be rewitten.
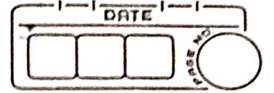
→

Ass5SetB2.java

```java
import java.io.*;
import jakarta.servlet.*;
import jakarta.servlet.http.*;
import java.util.*;

public class Ass5B2 extends HttpServlet
{
    public void doPost(HttpServletRequest req, HttpServlet
    Response res) throws ServletException, IOException {
```

```
int i , cnt = 0;
res. setContentType ("text/html");
printWriter.out = res.getWriter ();
out. println (" <html> <body >"),
String option = req. getParameter ("options");

Cookie cookies [] = req. get cookies ();
if (cookies != null)
    {

    for (i=0 ; i < cookies .length ; i++)
        if (cookies [i]. getName () . equals (" hobbi "))
        ?

        out. println (" Cookies exists for Hobby = " + cookies
                        [i]. getValue ());

    }

    Cookie c = new cookie (" hobby ", option);
        c. setPath (" / ");
        res. add cookie (c) ;
    out. println (" cookies Added for Hobby = " + option);
    out . println (" </body > </html> ");
    }

}
```

Ass B2. html

```
<html>
<body>
<form method = "POST"
```

```html
action ="http://localhost:9090/example/servlets/servlet/
        AssssetB2">

  <h2> Select an option : </h2><br>
  Painting <input type ="radio"  value ="Painting"
                name = "options" ><br>
  Drawing < input type ="radio" value ="Drawing"
            name= "options"><br>


  singing <input type ="radio"  value ="singing"
            name ="options"> <br>


  Swimming <input type ="radio" value ="swimming"
            name ="options"> <br>


<input type ="reset" value ="Reset"   style ="background-
      color : red;   color : white ">
<input type ="submit" value ="submit"
Style ="background-color:red; color: white ">
</form>
</body>
</html>
```

'C'

Goutom
08/10/2024