

1. **/* Write a program to present a set of choice for user to select stationary products and display the price of products after selection from the list. */**

```
import java.awt.*;
import javax.swing.*;
import javax.swing.event.*;
import java.awt.event.*;

public class Stationary extends JFrame implements ListSelectionListener
{
    JLabel jl1;
    JList list;
    JTextField jtf;
    String name[]={"BOOKS","PEN","PENCIL","SHARPENER","SCALE"};

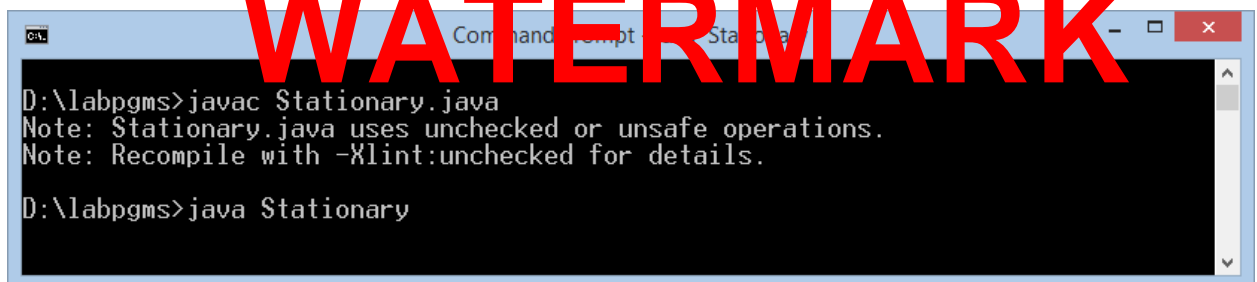
    public Stationary()
    {
        Container cp=getContentPane();
        cp.setLayout(new BorderLayout());
        jl1=new JLabel("Select a product");
        cp.add(jl1,BorderLayout.NORTH);
        list=new JList(name);
        list.addListSelectionListener(this);
        cp.add(list,BorderLayout.CENTER);
        jtf=new JTextField(15);
        cp.add(jtf,BorderLayout.SOUTH);    }

    public void valueChanged(ListSelectionEvent le)
    {
```

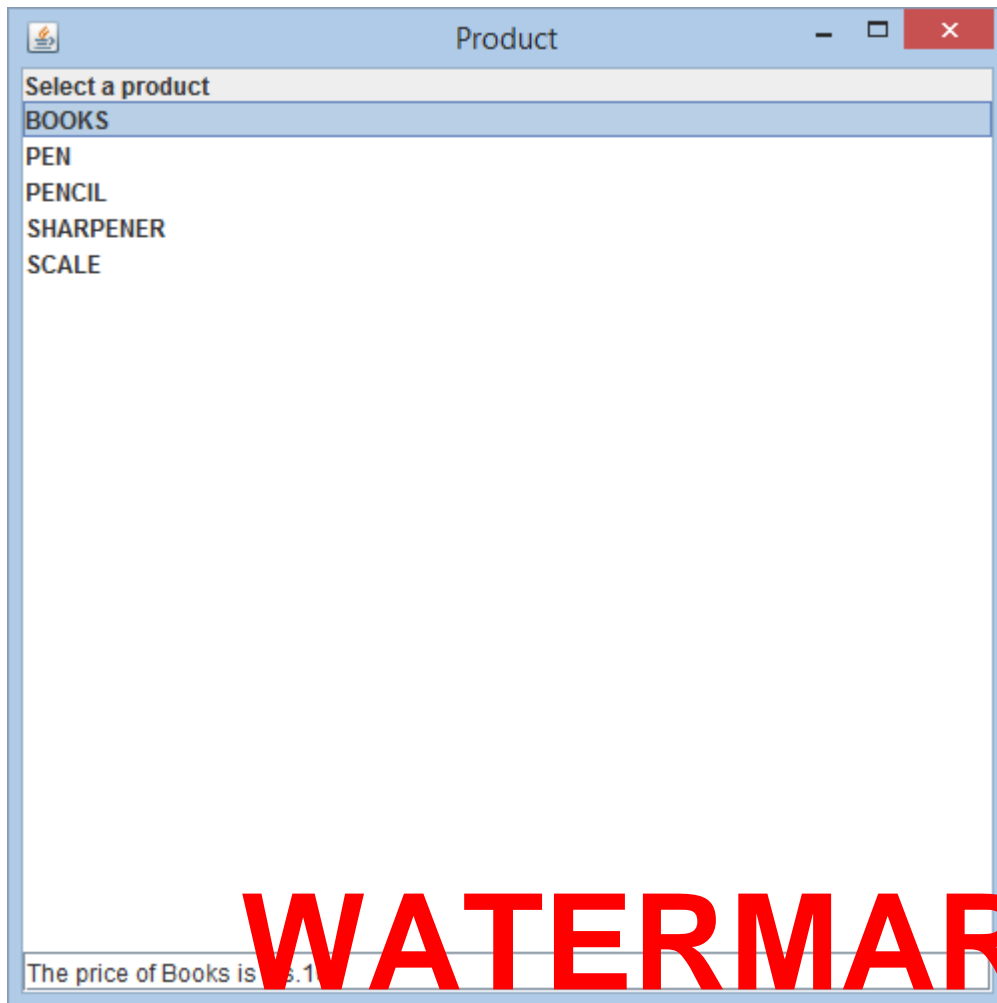
```
int i=list.getSelectedIndex();
if(i==0)
{
    jtf.setText("The price of Books is Rs.100");
}
else if(i==1)
{
    jtf.setText("The price of pen is Rs.10");
}
else if(i==2)
{
    jtf.setText("The price of pencil is Rs.5");
}
else if(i==3)
{
    jtf.setText("The price of sharpener is Rs.3");
}
else if(i==4)
{
    jtf.setText("The price of scale is Rs.5");
}
else
{
    jtf.setText("Select Item");
}
```

WATERMARK

```
    }  
}  
  
public static void main(String args[])  
{  
    Stationary p1=new Stationary();  
    p1.setSize(500,500);  
    p1.setVisible(true);  
    p1.setTitle("Product");  
    p1.setDefaultCloseOperation(EXIT_ON_CLOSE);  
}  
}
```



```
WATERMARK  
D:\labpgms>javac Stationary.java  
Note: Stationary.java uses unchecked or unsafe operations.  
Note: Recompile with -Xlint:unchecked for details.  
D:\labpgms>java Stationary
```



2./* Write a java program to demonstrate typical Editable Table, describing employee details for a software company. */

```

import java.awt.*;
import javax.swing.*;
import java.awt.event.*;

public class ETable extends JApplet
{
    JTable jtb;
    JScrollPane jsp;

    public void init()
    {
        Container c=getContentPane();
        c.setLayout(new BorderLayout());

        String colHeads[]={"Sr.no","Name","Phone No"};
        Object data[][]={{ "1","abc","9242642"},
                           {"2","def","572656"},
                           {"3","ghi","5364535"},
                           {"4","jkl","955345"},
                           {"5","mno","231212"},
                           {"6","pqr","758278"},
                           {"7","stu","8532034"},
                           {"8","vwx","587255"},
                           {"9","yza","899534"},
                           {"10","bcd","9259554"}};

        jtb=new JTable(data,colHeads);
    }
}

```

WATERMARK

```

        jsp=new JScrollPane(jtb);
        c.add(jsp);
    }
}

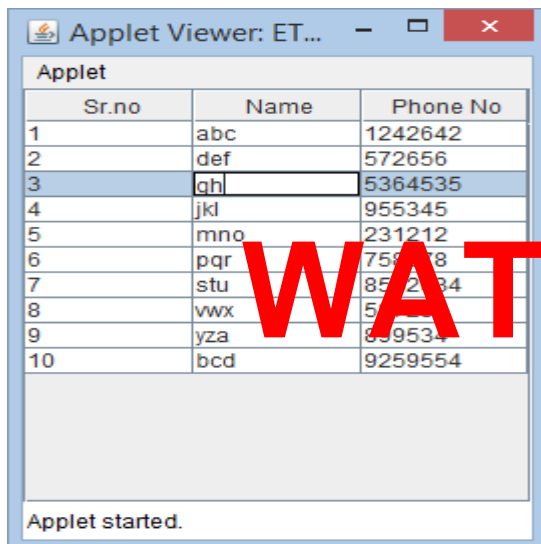
/*<applet code="ETable.class" width=300 height=300>
</applet>*/

```

```

D:\labpgms>javac ETable.java
D:\labpgms>appletviewer ETable.java

```



WATERMARK

3. / / Write a java program to create form using swing.

```

import java.awt.*;
import javax.swing.*;

public class JLabelDemo extends JApplet
{
    public void init()

```

```

{
    Container c=getContentPane();
    c.setLayout(null);

    JLabel L1=new JLabel("REGISTRATION FORM");
    L1.setBounds(50,10,140,20);
    c.add(L1);

    JLabel L2=new JLabel("UserName:");
    L2.setBounds(10,40,140,20);
    c.add(L2);

    JTextField T1=new JTextField(20);
    T1.setBounds(90,40,140,20);
    c.add(T1);

    JLabel L3=new JLabel("Password:");
    L3.setBounds(10,70,140,20);
    c.add(L3);

    JTextField T2=new JTextField(20);
    T2.setBounds(90,70,140,20);
    c.add(T2);

    JLabel L4=new JLabel("CPassword:");
    L4.setBounds(10,100,140,20);
    c.add(L4);

    JTextField T3=new JTextField(20);
    T3.setBounds(90,100,140,20);
    c.add(T3);
}

```

```
JLabel L5=new JLabel("FNAME:");
L5.setBounds(10,130,140,20);
c.add(L5);

JTextField T4=new JTextField(20);
T4.setBounds(90,130,140,20);
c.add(T4);

JLabel L6=new JLabel("LNAME:");
L6.setBounds(10,160,140,20);
c.add(L6);

JTextField T5=new JTextField(20);
T5.setBounds(90,160,140,20);
c.add(T5);

JLabel L7=new JLabel("BIRTH DATE:");
L7.setBounds(10,190,140,20);
c.add(L7);

JTextField T6=new JTextField(20);
T6.setBounds(90,190,140,20);
c.add(T6);

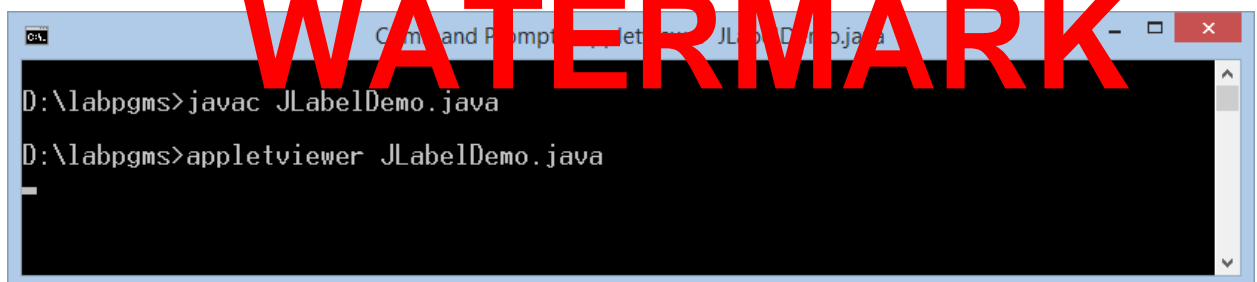
JLabel L8=new JLabel("EMAIL_ID:");
L8.setBounds(10,220,140,20);
c.add(L8);

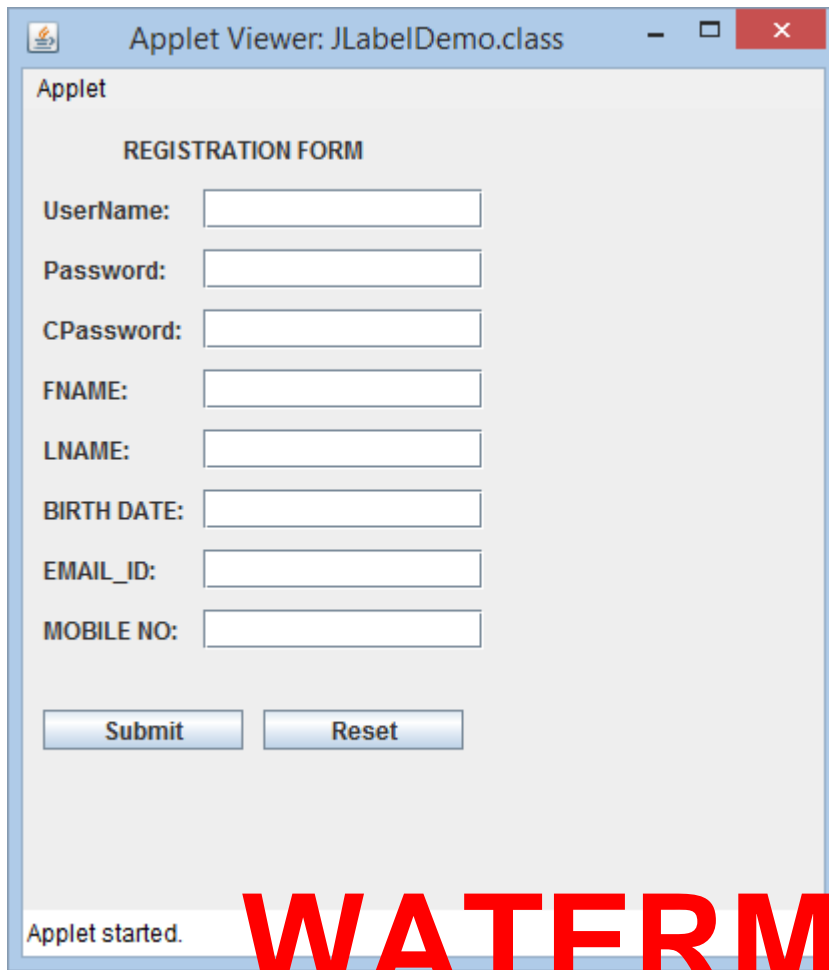
JTextField T7=new JTextField(20);
T7.setBounds(90,220,140,20);
c.add(T7);
```



```
JLabel L9=new JLabel("MOBILE NO:");  
L9.setBounds(10,250,140,20);  
c.add(L9);  
JTextField T8=new JTextField(20);  
T8.setBounds(90,250,140,20);  
c.add(T8);  
JButton jb=new JButton("Submit");  
jb.setBounds(10,300,100,20);  
c.add(jb);  
JButton jb1=new JButton("Reset");  
jb1.setBounds(120,300,100,20);  
c.add(jb1); } }
```

```
/*<applet code="JLabelDemo.class" height=400 width=400></applet>*/
```





4.// Create a jdbc program to create student table and insert two records.

```
import java.sql.*;
```

```
class CreateInsert
```

```
{
```

```
public static void main(String args[])
```

```
{
```

```
try
```

```

{
Class.forName("com.mysql.jdbc.Driver");

Connection
con=DriverManager.getConnection("jdbc:mysql://localhost:3306/s6","root","mahe
sh");

Statement st=con.createStatement();

st.executeUpdate("create table student(rollno int, sname varchar(20))");

System.out.println("Table Created");

st.executeUpdate("insert into student values(101,'xyz')");
st.executeUpdate("insert into student values(102,'pqr')");

System.out.println("records inserted");

st.close();

con.close();

}
catch(Exception e)
{
e.printStackTrace();
}
}
}

```

WATERMARK

```
Command Prompt

D:\msc1>javac CreateInsert.java

D:\msc1>java CreateInsert
Table Created
records inserted

D:\msc1>_
```

```
C:\Program Files\MySQL\MySQL Server 5.0\bin\mysql.exe

mysql> create database s6;
Query OK, 1 row affected (1.25 sec)

mysql> use s6
Database changed
mysql> desc student;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| rollno | int(11)       | YES  |     | NULL    |       |
| sname  | varchar(20)   | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
2 rows in set (3.08 sec)

mysql> select * from student;
+-----+-----+
| rollno | sname |
+-----+-----+
| 101    | xyz   |
| 102    | pqr   |
+-----+-----+
2 rows in set (0.00 sec)

mysql> _
```

5. // Create a jdbc program to demonstrate PreparedStatement.

```
import java.sql.*;

class PreparedStatementDemo
{
    public static void main(String args[])
```

```

{
try
{
Class.forName("com.mysql.jdbc.Driver");

Connection
con=DriverManager.getConnection("jdbc:mysql://localhost:3306/s6","root","mahe
sh");

PreparedStatement pst=con.prepareStatement("insert into student values (?,?)");

pst.setInt(1,106);

pst.setString(2,"x");

pst.executeUpdate();

pst.setInt(1,107);

pst.setString(2,"y");

pst.executeUpdate();

System.out.println("Records inserted");

PreparedStatement pst1=con.prepareStatement("update student set sname=? where
rollno=?");

pst1.setString(1,"z");

pst1.setInt(2,102);

pst1.executeUpdate();

System.out.println("Record Updated");

pst1.close();

pst.close();

con.close();

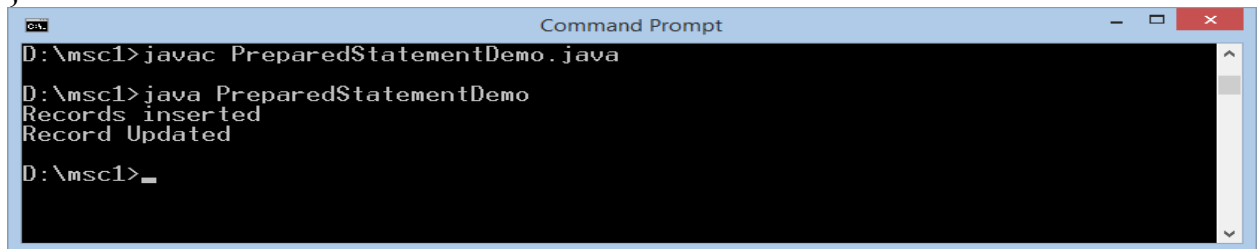
}

```

```

catch(Exception e)
{
e.printStackTrace();
}
}
}
}

```



```

D:\msc1>javac PreparedStatementDemo.java
D:\msc1>java PreparedStatementDemo
Records inserted
Record Updated
D:\msc1>_

```



```

mysql> select * from student;
+-----+-----+
| rollno | sname |
+-----+-----+
| 101    | xyz   |
| 102    | xyz   |
| 106    | x     |
| 107    | y     |
+-----+-----+
4 rows in set (0.00 sec)
mysql>

```

6. //Create a jdbc program to demonstrate ScrollableResultSets.

```

import java.sql.*;

class ScrollableResultSetDemo
{
public static void main(String args[])
{
try
{
Class.forName("com.mysql.jdbc.Driver");

```

Connection

```
con=DriverManager.getConnection("jdbc:mysql://localhost:3306/s6","root","mahe  
sh");
```

Statement

```
st=con.createStatement(ResultSet.TYPE_SCROLL_SENSITIVE,ResultSet.CONC  
UR_UPDATABLE);
```

```
ResultSet rs=st.executeQuery("select * from student1");
```

```
rs.moveToInsertRow();
```

```
rs.updateInt(1,110);
```

```
rs.updateString(2,"ajdfksajdf");
```

```
rs.insertRow();
```

```
rs.updateInt(1,111);
```

```
rs.updateString(2,"asdcde");
```

```
rs.insertRow();
```

```
System.out.println("Records Inserted");
```

```
rs.absolute(2);
```

```
rs.updateString(2,"ab");
```

```
rs.updateRow();
```

```
System.out.println("Record Updated");
```

```
rs.absolute(5);
```

```
rs.deleteRow();
```

```
System.out.println("Record Deleted");
```

```
rs.beforeFirst();
```

```
System.out.println("Records in forward direction");
```

```
while(rs.next())
```

```
{
```

```
int i=rs.getInt(1);
String s=rs.getString(2);
System.out.println("RollNo: "+i+", Name: "+s);
}
rs.afterLast();
System.out.println("Records in reverse direction");
while(rs.previous())
{
int i=rs.getInt(1);
String s=rs.getString(2);
System.out.println("RollNo: "+i+", Name: "+s);
}
rs.close();
st.close();
con.close();
}
catch(Exception e)
{
e.printStackTrace();
}
}
}
```

WATERMARK


```
Command Prompt
D:\msc1>javac ScrollableResultSetDemo.java
D:\msc1>java ScrollableResultSetDemo
Records Inserted
Record Updated
Record Deleted
Records in forward direction
RollNo: 101, Name: xyz
RollNo: 102, Name: ab
RollNo: 103, Name: sdfd
RollNo: 104, Name: bffg
RollNo: 111, Name: asdcdc
Records in reverse direction
RollNo: 111, Name: asdcdc
RollNo: 104, Name: bffg
RollNo: 103, Name: sdfd
RollNo: 102, Name: ab
RollNo: 101, Name: xyz
D:\msc1>
```

7. /*Develop Simple Servlet Question Answer Application to demonstrate use of HttpServletRequest and HttpServletResponse interfaces.

***/**

Question.html

WATERMARK

`<html>`

`<head>`

`<title>Questions Page</title>`

`</head>`

`<body>`

`<form method="POST" action="http://localhost:8085/h7/ValidateServlet">`

`<h1>My paper</h1>`

Q. 1) Which is a valid keyword in java?

`<input type="radio" name="r1" value ="int"/>interface`

`<input type="radio" name="r1" value ="F"/>Float`

`<input type="radio" name="r1" value ="s"/>string`

☐All of the above

Q. 2) What is sent to the user via HTTP, invoked using the HTTP protocol on the user's computer, and run on the user's computer as an application?

☐A Java application

☐A Java applet

☐A Java servlet

☐None of the above

Q. 3) JDBC stands for:

☐Java Database Connectivity

☐Java Database Components

☐Java Database Control

☐None of the above

Q. 4) What is bytecode?

☐Machine-specific code

☐Java code

☐Machine-independent code

☐None of the above

</form>

```
</body>
</html>
```

ValidateServlet.java

```
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;

public class ValidateServlet extends HttpServlet
{
    public void doPost(HttpServletRequest req, HttpServletResponse res) throws
ServletException, IOException {
        res.setContentType("text/html");
        PrintWriter out = res.getWriter();
        try {
            out.println("<html>");
            out.println("<head>");
            out.println("<title>Test Result</title>");
            out.println("</head>");
            out.println("<body>");

            if(req.getParameter("r1").equals("int")&&req.getParameter("r2").equals("app")&&
req.getParameter("r3").equals("jdbc")&&req.getParameter("r4").equals("mic"))

                out.println("You are Pass");
```

```

        else
            out.println("Better luck Next time");

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

    } finally {
        out.close();
    }
}
}

```

web.xml

```

<web-app>
<servlet>
<servlet-name>ValidateServlet</servlet-name>
<servlet-class>ValidateServlet</servlet-class>
</servlet>
<servlet-mapping>
<servlet-name>ValidateServlet</servlet-name>
<url-pattern>/ValidateServlet</url-pattern>
</servlet-mapping>
</web-app>

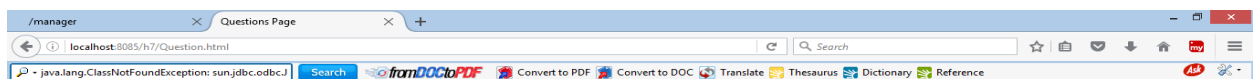
```

WATERMARK

```
Command Prompt

D:\msc1>jar cvf h7.war WEB-INF Question.html
added manifest
adding: WEB-INF/(in = 0) (out= 0)(stored 0%)
adding: WEB-INF/classes/(in = 0) (out= 0)(stored 0%)
adding: WEB-INF/classes/ValidateServlet.class(in = 1345) (out= 779)(deflated 42%)
adding: WEB-INF/classes/ValidateServlet.java(in = 997) (out= 374)(deflated 62%)
adding: WEB-INF/web.xml(in = 268) (out= 94)(deflated 64%)
adding: Question.html(in = 1898) (out= 552)(deflated 70%)

D:\msc1>
```

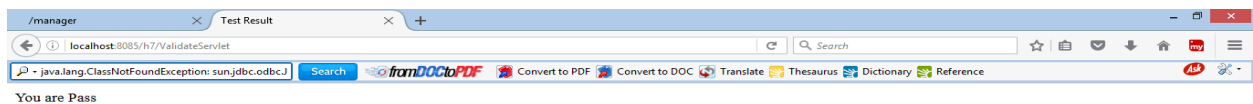


My paper

- Q. 1) Which is a valid keyword in java?
☒ interface ☐ Float ☐ string ☐ All of the above
- Q. 2) What is sent to the user via HTTP, invoked using the HTTP protocol on the user's computer, and run on the user's computer as an application?
☒ A Java application ☐ A Java applet ☐ A Java servlet ☐ None of the above
- Q. 3) JDBC stands for:
☒ Java Database Connectivity ☐ Java Database Components ☐ Java Database Control ☐ None of the above
- Q. 4) What is bytecode?
☐ Machine-specific code ☐ Java code ☒ Machine-independent code ☐ None of the above

[Display Result](#) [Reset Values](#)

WATERMARK



8. /* Develop Servlet application to accept HTNO of a student from client and

display the memorandum of marks from the server */

StudentEntry.html

```
<html>
<head>
<title>Student Result</title>
</head>
<body>
<form method="POST" action="http://localhost:8085/x24/DisplayResult">
<h1> Student Result</h1><br>
Enter Hallticket No: <input type="text" name="t1"><br>
<input type="submit" value="Submit"><input type="reset" value="Reset">
</form>
</body>
</html>
```

WATERMARK

DisplayResult.java

```
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;
import java.sql.*;

public class DisplayResult extends HttpServlet
{
    Connection con;
    Statement st;
    ResultSet rs;
```

```

PrintWriter out;

public void init(ServletConfig sc) throws ServletException
{
    try
    {
        super.init(sc);
        Class.forName("com.mysql.jdbc.Driver");
        con=DriverManager.getConnection("jdbc:mysql://localhost:3306/s3","root","mahe
sh");
    }
    catch(Exception e)
    {
        e.printStackTrace();
    }
}

public void doPost(HttpServletRequest req, HttpServletResponse res)throws
ServletException, IOException
{
    try
    {
        int rno=Integer.parseInt(req.getParameter("t1"));
        res.setContentType("text/html");
        out=res.getWriter();
        st=con.createStatement();
        rs=st.executeQuery("select * from studentdetails where rollno="+rno);
    }
}

```

```

if(rs.next())
{
out.println("<html><body><table border=4 bordercolor='green'><caption>Student
Result</caption>");
out.println("<tr><th>Roll No:</th><td>" + rs.getInt(1) + "</td></tr>");
out.println("<tr><th>Student Name:</th><td>" + rs.getString(2) + "</td></tr>");
out.println("<tr><th>Subject 1:</th><td>" + rs.getString(3) + "</td><th>Subject 1
Marks</th><td>" + rs.getInt(6) + "</td></tr>");
out.println("<tr><th>Subject 2:</th><td>" + rs.getString(4) + "</td><th>Subject 2
Marks</th><td>" + rs.getInt(7) + "</td></tr>");
out.println("<tr><th>Subject 3:</th><td>" + rs.getString(5) + "</td><th>Subject 3
Marks</th><td>" + rs.getInt(8) + "</td></tr>");
out.println("</table></body></html>");
}
else
{
out.println("Rollno. not found");
}
}
catch(Exception e)
{
out.println("Roll No. Not Found");
e.printStackTrace();
}
}
public void destroy()

```

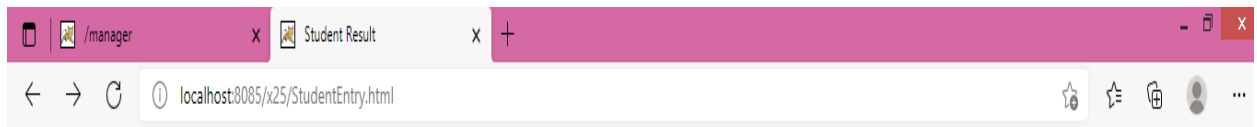
WATERMARK


```
{
try
{
rs.close();
st.close();
con.close();
}
catch(Exception e)
{
e.printStackTrace();
}
}
}
```

web.xml

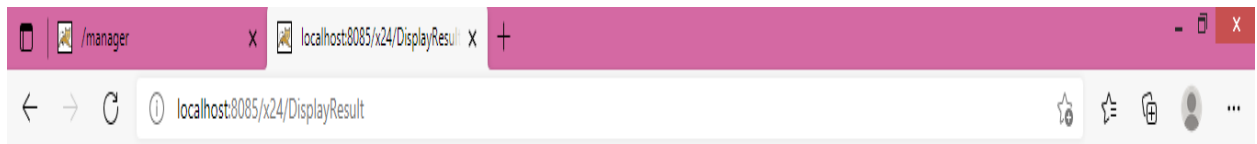
```
<web-app>
<servlet>
<servlet-name>DisplayResult</servlet-name>
<servlet-class>DisplayResult</servlet-class>
</servlet>
<servlet-mapping>
<servlet-name>DisplayResult</servlet-name>
<url-pattern>/DisplayResult</url-pattern>
</servlet-mapping> </web-app>
```

WATERMARK



Student Result

Enter Hallticket No:



Student Result

Roll No:	101		
Student Name:	zyz		
Subject 1:	Advanced Java	Subject 1 Marks	56
Subject 2:	Operating Systems	Subject 2 Marks	67
Subject 3:	Discrete Mathematics	Subject 3 Marks	84

WATERMARK

LoginServlet.html

WATERMARK

```
import javax.servlet.*;
import javax.servlet.http.*;
import java.io.*;
import java.sql.*;

public class LifeCycle extends HttpServlet
{
```

```

Connection con;
Statement st;
ResultSet rs;
public void init(ServletConfig sc) throws ServletException
{
try
{
super.init(sc);
Class.forName("com.mysql.jdbc.Driver");
con=DriverManager.getConnection("jdbc:mysql://localhost:3306/s6","root","mahe
sh");
}
catch(Exception e)
{
e.printStackTrace();
}
}

public void doGet(HttpServletRequest req, HttpServletResponse res) throws
ServletException, IOException
{
try
{
res.setContentType("text/html");
PrintWriter pw=res.getWriter();
String u=req.getParameter("u1");

```

```

String p=req.getParameter("p1");

st=con.createStatement();

st.executeUpdate("insert into user values(' "+u+" ', '"+p+" '");

pw.println("<html><body bgcolor=pink><center><table border=3><caption>
LOGIN
TABLE</caption><tr><th>USERNAME</th><th>PASSWORD</th></tr>");

rs=st.executeQuery("select * from user");

while(rs.next())

{

pw.println("<tr><td>"+rs.getString(1)+"<td>"+rs.getString(2)+"</tr>");

}

pw.println("</table></center></body></html>");

}

catch(Exception e)
{
e.printStackTrace();
}

}

public void destroy()

{

try

{

rs.close();

st.close();

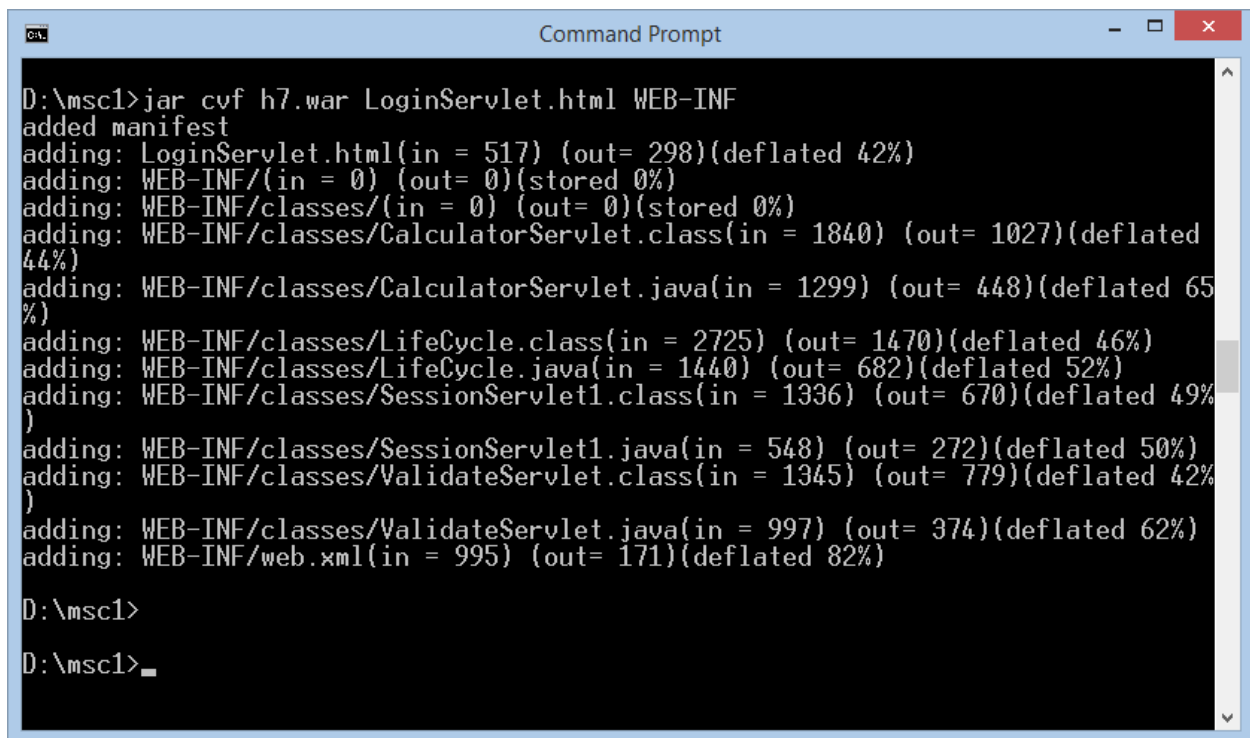
con.close(); }

```

WATERMARK

```
catch(Exception e)
```

```
{ e.printStackTrace(); } }
```



```
Command Prompt

D:\msc1>jar cvf h7.war LoginServlet.html WEB-INF
added manifest
adding: LoginServlet.html(in = 517) (out= 298)(deflated 42%)
adding: WEB-INF/(in = 0) (out= 0)(stored 0%)
adding: WEB-INF/classes/(in = 0) (out= 0)(stored 0%)
adding: WEB-INF/classes/CalculatorServlet.class(in = 1840) (out= 1027)(deflated 44%)
adding: WEB-INF/classes/CalculatorServlet.java(in = 1299) (out= 448)(deflated 65%)
adding: WEB-INF/classes/LifeCycle.class(in = 2725) (out= 1470)(deflated 46%)
adding: WEB-INF/classes/LifeCycle.java(in = 1440) (out= 682)(deflated 52%)
adding: WEB-INF/classes/SessionServlet1.class(in = 1336) (out= 670)(deflated 49%)
adding: WEB-INF/classes/SessionServlet1.java(in = 548) (out= 272)(deflated 50%)
adding: WEB-INF/classes/ValidateServlet.class(in = 1345) (out= 779)(deflated 42%)
adding: WEB-INF/classes/ValidateServlet.java(in = 997) (out= 374)(deflated 62%)
adding: WEB-INF/web.xml(in = 995) (out= 171)(deflated 82%)

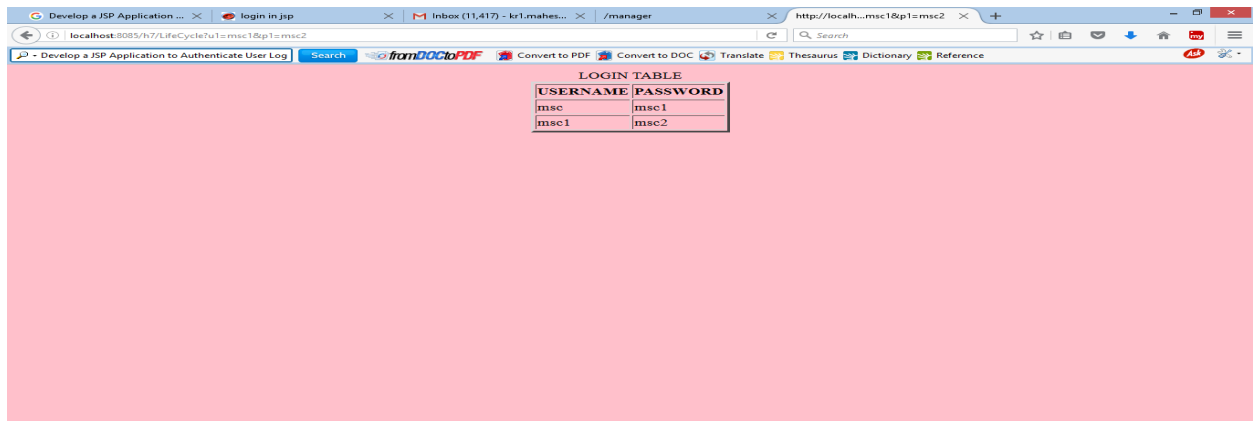
D:\msc1>

D:\msc1>
```



USER LOGIN FORM

USER-ID	msc1
PASSWORD
Login	Reset



WATERMARK

10. // Develop a servlet program to demonstration Http Session.

SessionServlet1.java

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

public class SessionServlet1 extends HttpServlet
{
```

```
public void doGet(HttpServletRequest req, HttpServletResponse res)throws  
ServletException, IOException
```

```
{  
    HttpSession ses=req.getSession(true);  
    Date d=(Date)ses.getValue("date");  
    PrintWriter pw=res.getWriter();  
    if(d==null)  
    {  
        pw.println("First Request");  
        d=new Date();  
        ses.putValue("date",d);  
    }  
    else  
    {  
        pw.println("Last Request Time:" +d);  
        d=new Date();  
        ses.putValue("date",d);  
    }  
}
```

web.xml

```
<web-app>  
<servlet>  
<servlet-name>SessionServlet1</servlet-name>  
<servlet-class>SessionServlet1</servlet-class>
```



```
</servlet>

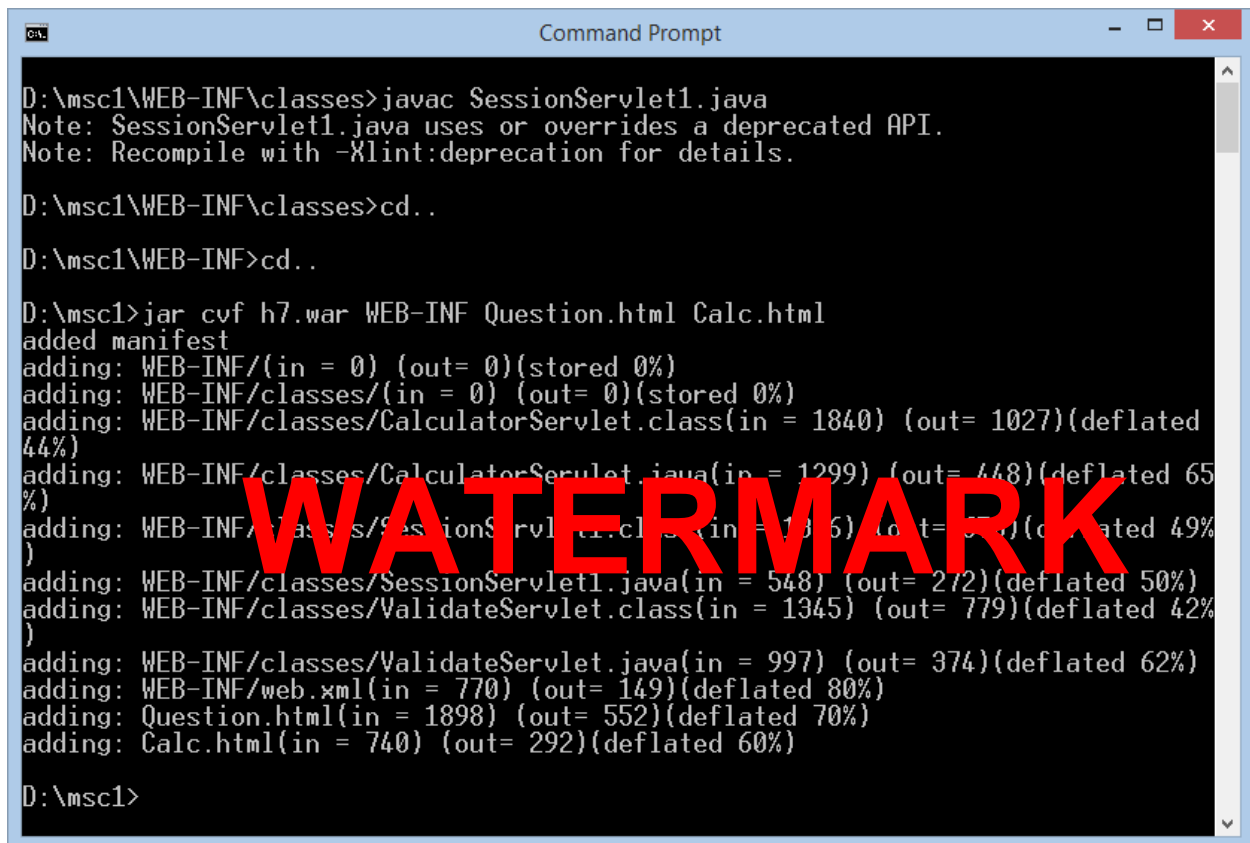
<servlet-mapping>

<servlet-name>SessionServlet1</servlet-name>

<url-pattern>/SessionServlet1</url-pattern>

</servlet-mapping>

</web-app>
```



```
Command Prompt

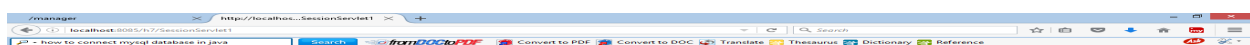
D:\msc1\WEB-INF\classes>javac SessionServlet1.java
Note: SessionServlet1.java uses or overrides a deprecated API.
Note: Recompile with -Xlint:deprecation for details.

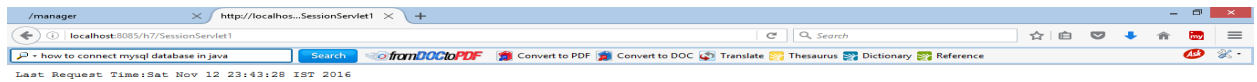
D:\msc1\WEB-INF\classes>cd..

D:\msc1\WEB-INF>cd..

D:\msc1>jar cvf h7.war WEB-INF Question.html Calc.html
added manifest
adding: WEB-INF/(in = 0) (out= 0)(stored 0%)
adding: WEB-INF/classes/(in = 0) (out= 0)(stored 0%)
adding: WEB-INF/classes/CalculatorServlet.class(in = 1840) (out= 1027)(deflated 44%)
adding: WEB-INF/classes/CalculatorServlet.java(in = 1299) (out= 448)(deflated 65%)
adding: WEB-INF/classes/SessionServlet1.class(in = 1336) (out= 574)(deflated 49%)
adding: WEB-INF/classes/SessionServlet1.java(in = 548) (out= 272)(deflated 50%)
adding: WEB-INF/classes/ValidateServlet.class(in = 1345) (out= 779)(deflated 42%)
adding: WEB-INF/classes/ValidateServlet.java(in = 997) (out= 374)(deflated 62%)
adding: WEB-INF/web.xml(in = 770) (out= 149)(deflated 80%)
adding: Question.html(in = 1898) (out= 552)(deflated 70%)
adding: Calc.html(in = 740) (out= 292)(deflated 60%)

D:\msc1>
```





11. /* Develop a JSP Application to accept Registration Details from the user and store database. */

Login.jsp

```
<%@page contentType="text/html"%>
```

```
<html>
```

```
  <head>
```

```
    <title>Registration</title>
```

```
  </head>
```

```
  <body>
```

```
    <h1>Registration</h1>
```

```
    <form action="http://localhost:8085/h7/Registration.jsp">
```

```
      username:&nbsp;<input type="text" name="t1"><br>
```

```
      password:&nbsp;<input type="password" name="t2"><br>
```

```
      email:&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<input  
type="text" name="t3"><br>
```

```
      <input type="submit" value="login">
```

```
      <input type="reset" value="reset">
```

```
    </form>    </body> </html>
```

Registration.jsp

```
<html>

<head>

<title>Registration Result Page</title>

</head>

<body>

<%@page import="java.sql.*" contentType="text/html" %>

<%

try

    {
        Class.forName("com.mysql.jdbc.Driver");

Connection
con=DriverManager.getConnection("jdbc:mysql://localhost:3306/s6","root","mahe
sh");

String s=request.getParameter("t1");

String s1=request.getParameter("t2");

String s2=request.getParameter("t3");

PreparedStatement ps=con.prepareStatement("insert into login values(?,?,?)");

    ps.setString(1,s);

    ps.setString(2,s1);

    ps.setString(3,s2);
```

```
ps.executeUpdate();

}
```

```
catch(Exception e)

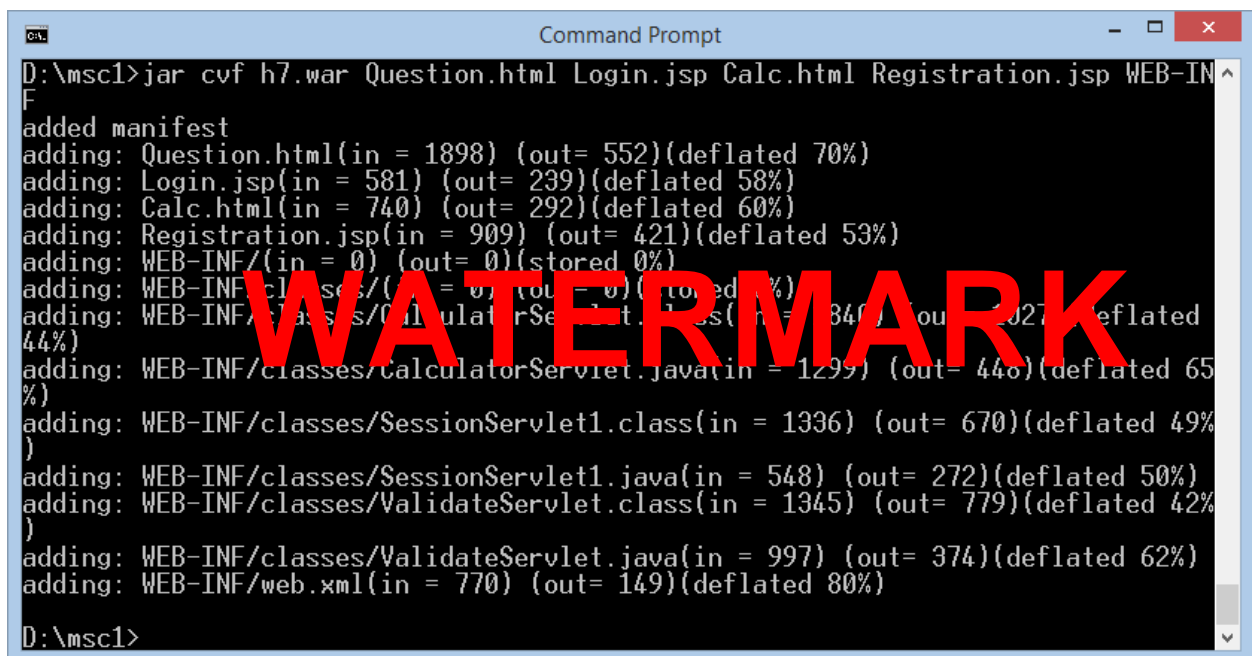
{

    e.printStackTrace();

}
```

```
%>
```

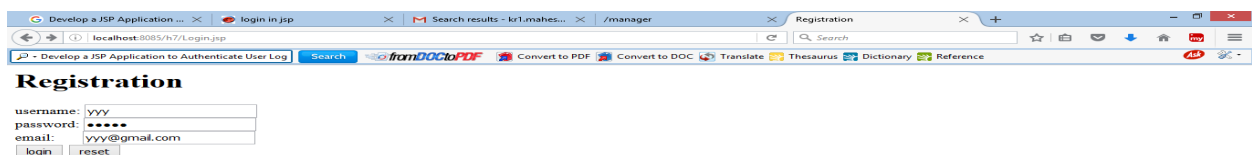
Record inserted successfully!!!!!!!!!!!!!! </body></html>



```

C:\> Command Prompt
D:\msc1>jar cvf h7.war Question.html Login.jsp Calc.html Registration.jsp WEB-INF
added manifest
adding: Question.html(in = 1898) (out= 552)(deflated 70%)
adding: Login.jsp(in = 581) (out= 239)(deflated 58%)
adding: Calc.html(in = 740) (out= 292)(deflated 60%)
adding: Registration.jsp(in = 909) (out= 421)(deflated 53%)
adding: WEB-INF/(in = 0) (out= 0)(stored 0%)
adding: WEB-INF/classes/(in = 0) (out= 0)(stored 0%)
adding: WEB-INF/classes/CalculatorServlet.class(in = 1340) (out= 202)(deflated
44%)
adding: WEB-INF/classes/CalculatorServlet.java(in = 1299) (out= 440)(deflated 65
%)
adding: WEB-INF/classes/SessionServlet1.class(in = 1336) (out= 670)(deflated 49%
)
adding: WEB-INF/classes/SessionServlet1.java(in = 548) (out= 272)(deflated 50%)
adding: WEB-INF/classes/ValidateServlet.class(in = 1345) (out= 779)(deflated 42%
)
adding: WEB-INF/classes/ValidateServlet.java(in = 997) (out= 374)(deflated 62%)
adding: WEB-INF/web.xml(in = 770) (out= 149)(deflated 80%)
D:\msc1>

```

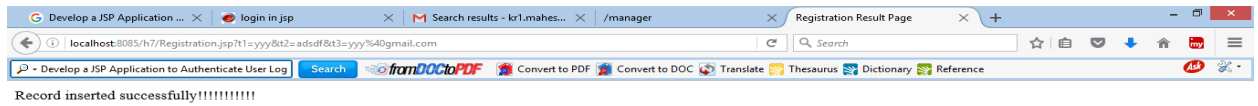


Registration

username:

password:

email:



WATERMARK

12. /*Develop a JSP Application to Authenticate User Login as per the Registration Details. If Login Success then forward User to Index Page otherwise show Login failure Message. */

UserLogin.jsp

```
<html>
<head>
<title>User Login</title>
</head>
<body>
<center><h1>USER LOGIN FORM</h1><hr>
<form method="POST" action="http://localhost:8085/h7/ValidateUser.jsp">
<pre>  <table border=2><tr><td><b>USER-ID</td><td> <input type=text
name=u1 size=15 ><td></tr>
<tr><td> <b>PASSWORD</td><td> <input type=password name=p1
size=15></tr><tr>
<td align=center> <input type=submit value=Login></td>
<td align=center><input type=Reset value=Reset></td></tr>
</table>
</pre> </form>
</body> </html>
```

ValidateUser.jsp

```
<html>
```

```

<head><title>User Validation</title></head>

<body>

<%@page import="java.sql.*" %>

<% try
    {
        String s1=request.getParameter("u1");
        String s2=request.getParameter("p1");

Class.forName("com.mysql.jdbc.Driver");

Connection
con=DriverManager.getConnection("jdbc:mysql://localhost:3306/s6","root","mahe
sh");

Statement st=con.createStatement();

ResultSet rs=st.executeQuery("select * from login where uname='"+s1+"' and
password='"+s2+"'");
if(rs.next())
{
    response.sendRedirect("http://localhost:8085/h7/Index.jsp");
}
else
{
response.sendRedirect("http://localhost:8085/h7/Error.jsp");
}
st.close();
con.close();
}

```

WATERMARK

```
catch(Exception e)
```

```
{ out.println(e.toString()); }%> </body> </html>
```

Index.jsp

```
<html><body>
```

```
<h1>Welcome to index page</h1>
```

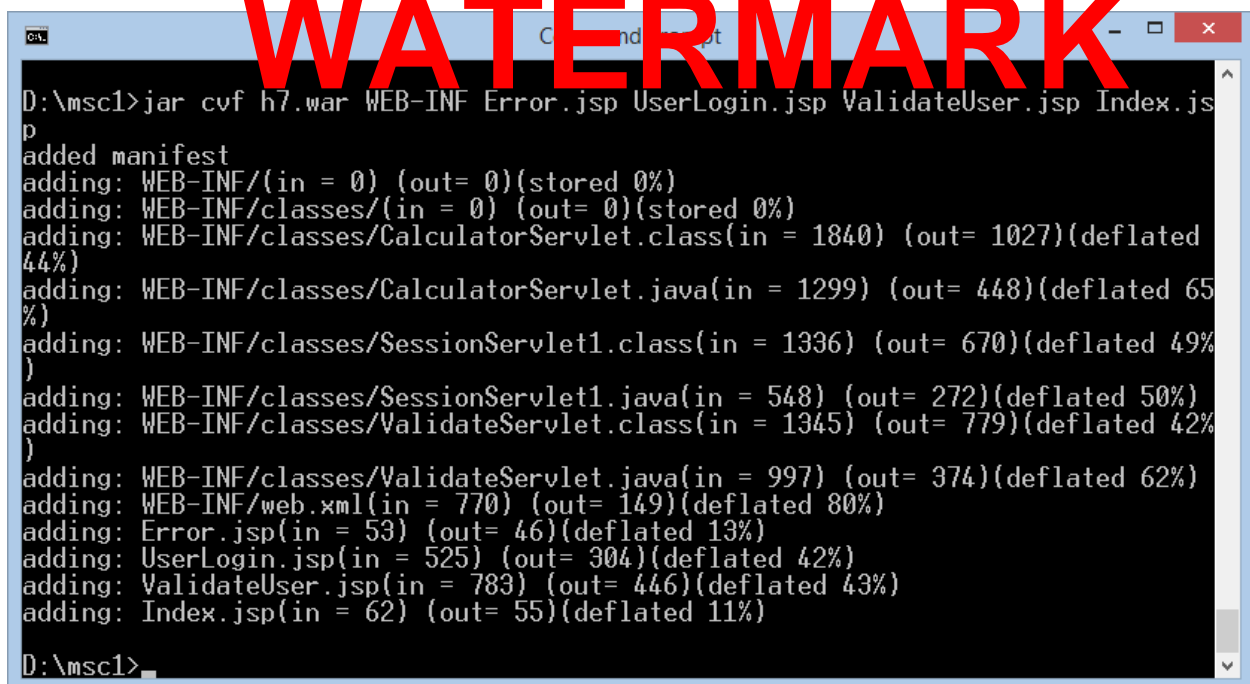
```
</body></html>
```

Error.jsp

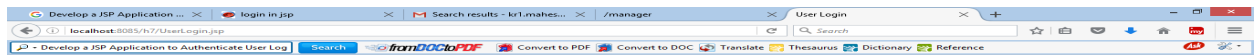
```
<html><body>
```

```
<h1>Invalid USER</h1>
```

```
</body></html>
```

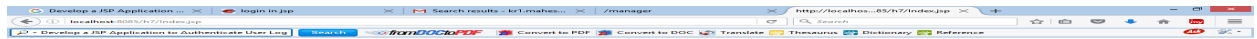


```
D:\msc1>jar cvf h7.war WEB-INF Error.jsp UserLogin.jsp ValidateUser.jsp Index.jsp
added manifest
adding: WEB-INF/(in = 0) (out= 0)(stored 0%)
adding: WEB-INF/classes/(in = 0) (out= 0)(stored 0%)
adding: WEB-INF/classes/CalculatorServlet.class(in = 1840) (out= 1027)(deflated 44%)
adding: WEB-INF/classes/CalculatorServlet.java(in = 1299) (out= 448)(deflated 65%)
adding: WEB-INF/classes/SessionServlet1.class(in = 1336) (out= 670)(deflated 49%)
adding: WEB-INF/classes/SessionServlet1.java(in = 548) (out= 272)(deflated 50%)
adding: WEB-INF/classes/ValidateServlet.class(in = 1345) (out= 779)(deflated 42%)
adding: WEB-INF/classes/ValidateServlet.java(in = 997) (out= 374)(deflated 62%)
adding: WEB-INF/web.xml(in = 770) (out= 149)(deflated 80%)
adding: Error.jsp(in = 53) (out= 46)(deflated 13%)
adding: UserLogin.jsp(in = 525) (out= 304)(deflated 42%)
adding: ValidateUser.jsp(in = 783) (out= 446)(deflated 43%)
adding: Index.jsp(in = 62) (out= 55)(deflated 11%)
D:\msc1>
```

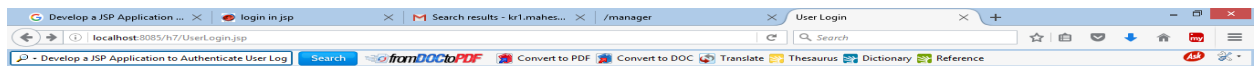



USER LOGIN FORM

USER-ID	xyz
PASSWORD	...
Login	Reset



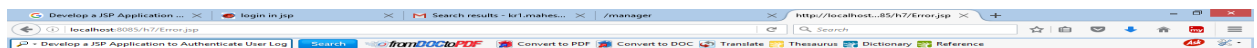
Welcome to index page



USER LOGIN FORM

USER-ID	xyz2
PASSWORD	...
Login	Reset

WATERMARK



Invalid USER

13. a) /*Create a JSP page that prints temperature conversion (from Celsius to Fahrenheit) */

Celsius.jsp

<html>

<body>

<%

float Fahrenheit, Celsius;

Celsius= 13;

Fahrenheit = ((Celsius*9)/5)+32;

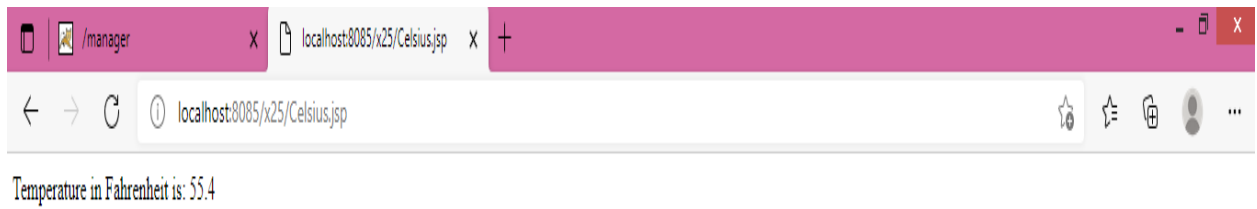
out.println("Temperature in Fahrenheit is: "+Fahrenheit);

%>

</body>

</html>

WATERMARK



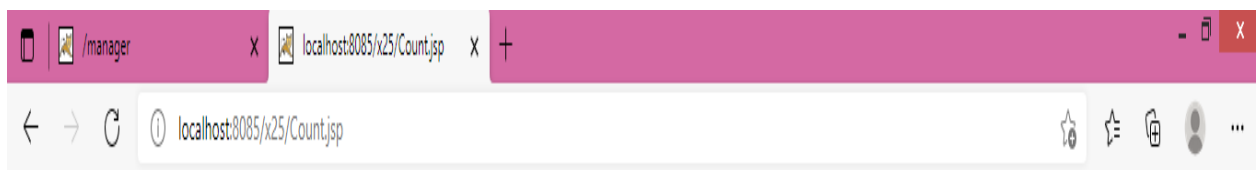
b) /*Create a JSP page to print current Date and Time */

```
<html>
<body>
<h2>The current system data and time is: <%= new java.util.Date()%> </h2>
</body>
</html>
```



c) /*Create a JSP page to print number of times page is referred after the page is loaded.*/

```
<html>
<body>
<%! int count=0;%>
<% count++; %>
<h2>The page is requested by <%=count%> number of users till now.</h2>
</body>
</html>
```



The page is requested by 5 number of users till now.

WATERMARK

14. /* Write a program to demonstrate RMI application */

Calculator.java (Remote Interface Program)

```
import java.rmi.*;

public interface Calculator extends Remote
{
    public int add(int a, int b) throws RemoteException;
}
```

WATERMARK

CalculatorImpl.java (Implementation Program)

```
import java.rmi.*;
import java.rmi.server.*;

public class CalculatorImpl extends UnicastRemoteObject implements Calculator
{
    public CalculatorImpl() throws RemoteException
    {
        super();
    }
}
```

```
public int add(int a, int b) throws RemoteException
{
    return a+b;
}
}
```

CalculatorServer.java (Server Program)

```
import java.rmi.*;
public class CalculatorServer
{
    public static void main(String args[])
    {
        try
        {
            CalculatorImpl c1=new CalculatorImpl();
            Naming.rebind("msc",c1);
            System.out.println("Object is binded and Server is ready");
        }
        catch(Exception e)
        {
            e.printStackTrace();
        }
    }
}
```

WATERMARK

CalculatorClient.java (Client Program)

```
import java.rmi.*;

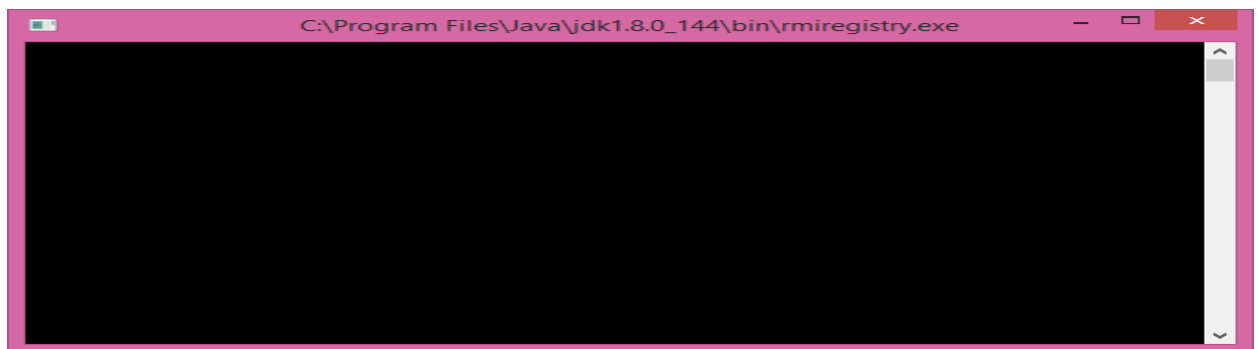
public class CalculatorClient
{
    public static void main(String args[])
    {
        try
        {
            Calculator c2=(Calculator)Naming.lookup("rmi://localhost:1099/msc");
            int result=c2.add(100,200);
            System.out.println("Result =" +result);
        }
        catch(Exception e)
        {
            e.printStackTrace();
        }
    }
}
```

```
Command Prompt

I:\BCA ONLINE CLASS MATERIALS\MSC CS I SEM AJP 2020-2021\rmi>javac *.java

I:\BCA ONLINE CLASS MATERIALS\MSC CS I SEM AJP 2020-2021\rmi>start rmiregistry

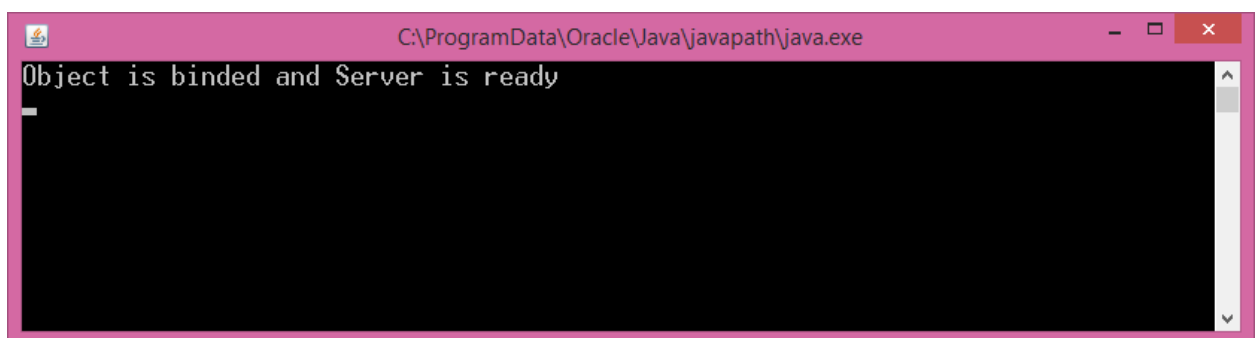
I:\BCA ONLINE CLASS MATERIALS\MSC CS I SEM AJP 2020-2021\rmi>
```



```
Command Prompt

I:\BCA ONLINE CLASS MATERIALS\MSC CS I SEM AJP 2020-2021\rmi>start java calcul server

I:\BCA ONLINE CLASS MATERIALS\MSC CS I SEM AJP 2020-2021\rmi>
```




```
I:\BCA ONLINE CLASS MATERIALS\MSC CS I SEM AJP 2020-2021\rmi>java CalculatorClient  
Result =300
```

```
I:\BCA ONLINE CLASS MATERIALS\MSC CS I SEM AJP 2020-2021\rmi>
```

WATERMARK