index.html:

```html
<html>
   <head>
      <title>TODO supply a title</title>
      <meta charset="UTF-8">
      <meta name="viewport" content="width=device-width, initial-scale=1.0">
   </head>
   <body>
       <center><h1>Online Examination</h1> </center>
  <form action="Threetierapp.Threetierapp" method="post">
  <div align="left"><br></div>
  <b>Seat Number:</b> <input type="text" name="Seat_no">
  <div align="left">
   <b>Name:</b>
   <input type="text" name="Name" size="50"><br> </div>
  <br><br>
  <b>1. Every host implements transport layer.</b><br>
  <input type="radio" name="group1" value="True">True
  <input type="radio" name="group1" value="False">False<br>
  <b>2. It is a network layer's responsibility to forward packets reliably from source to
destination</b><br/>
  <input type="radio" name="group2" value="True">True
  <input type="radio" name="group2" value="False">False<br>
  <b>3. Packet switching is more useful in bursty traffic</b><br/>
  <input type="radio" name="group3" value="True">True
  <input type="radio" name="group3" value="False">False<br>
  <b>4. A phone network uses packet switching</b><br/>
  <input type="radio" name="group4" value="True">True
  <input type="radio" name="group4" value="False">False<br>
  <b>5. HTML is a Protocol for describing web contents</b><br/>
  <input type="radio" name="group5" value="True">True
  <input type="radio" name="group5" value="False">False<br>
  <br><br><br>
  <center>
   <input type="submit" value="Submit"><br><br> </center>
  </form>
   </body>
</html>
```

Threetierapp.java:

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

public class Threetierapp extends HttpServlet{
      String message,Seat_no,Name,ans1,ans2,ans3,ans4,ans5;
    int Total=0;
      Connection connect=null;
    Statement stmt=null;
```

```java
    ResultSet rs=null;
        public void doPost(HttpServletRequest request,HttpServletResponse response) throws
ServletException, IOException{
            try{
                    Class.forName("com.mysql.jdbc.Driver");
                Connection connect =
DriverManager.getConnection("jdbc:mysql://localhost:3306/exam","root","toor");
            message="Thank you for participating in online Exam";
                }
                catch(ClassNotFoundException cnfex){ cnfex.printStackTrace();
                }
                catch(SQLException sqlex){ sqlex.printStackTrace();
                }
                catch(Exception excp){ excp.printStackTrace();
                }
                Seat_no=request.getParameter("Seat_no");
            Name=request.getParameter("Name");
                ans1=request.getParameter("group1");
            ans2=request.getParameter("group2");
                ans3=request.getParameter("group3");
            ans4=request.getParameter("group4");
                ans5=request.getParameter("group5");
            if(ans1.equals("True"))
                    Total+=2;
                if(ans2.equals("False"))
                    Total+=2;
                if(ans3.equals("True"))
                    Total+=2;
                if(ans4.equals("False"))
                    Total+=2;
                if(ans5.equals("False"))
                    Total+=2;
            try{
                                Statement stmt=connect.createStatement();
                                String query="INSERT INTO
student("+"Seat_no,Name,Total"+") VALUES('"+Seat_no+"','"+Name+"','"+Total+"')";
                                int result=stmt.executeUpdate(query);
                                stmt.close();
                                }
                                catch(SQLException ex){}
                                response.setContentType("text/html");
                                PrintWriter out=response.getWriter();
                                out.println("<html>");
                        out.println("<head>");
                                out.println("</head>");
                        out.println("<bodybgcolor=cyan>");
                                out.println("<center>");
                        out.println("<h1>"+message+"</h1>\n");
                                out.println("<h3>Yours results stored in our database</h3>");
                                out.print("<br><br>");
```

```java
                            out.println("<b>"+"Participants and their Marks"+"</b>");
                    out.println("<tableborder=5>");
                        try{
                                Statement stmt=connect.createStatement();
                                String query="SELECT * FROM student";
                                ResultSet rs =stmt.executeQuery(query);
                                out.println("<th>"+"Seat_no"+"</th>");
                                out.println("<th>"+"Name"+"</th>");
                                out.println("<th>"+"Marks"+"</th>");
                                while(rs.next()){
                                        out.println("<tr>");
                                        out.print("<td>"+rs.getInt(1)+"</td>");
                                        out.print("<td>"+rs.getString(2)+"</td>");
                                        out.print("<td>"+rs.getString(3)+"</td>");
                                        out.println("</tr>");
                                }
                                out.println("</table>");
                        }
                        catch(SQLException ex){ }
                        finally{
                                try{
                                        if(rs!=null)
                                                rs.close();
                                        if(stmt!=null)
                                                stmt.close();
                                        if(connect!=null)
                                                connect.close();
                                }
                                catch(SQLException e){ }
                        }
                        out.println("</center>");
                        out.println("</body></html>");
                        Total=0;
                }
        }
```

web.xml:
```xml
<web-app
    <servlet>
        <servlet-name>Threetierapp.Threetierapp</servlet-name>
        <servlet-class>Threetierapp.Threetierapp</servlet-class>
    </servlet>
    <servlet-mapping>
        <servlet-name>Threetierapp.Threetierapp</servlet-name>
        <url-pattern>/Threetierapp.Threetierapp</url-pattern>
    </servlet-mapping>
    <session-config>
        <session-timeout>
            30
        </session-timeout>
```
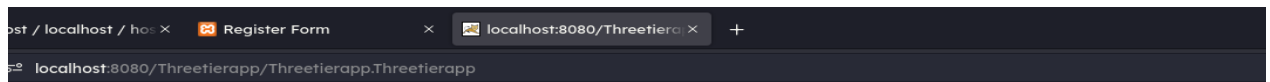
```
    </session-config>
</web-app>
```

Output:

Online Examination

Seat Number: [1]
Name: [abcd]

1. Every host implements transport layer.
⦿ True ○ False
2. It is a network layer's responsibility to forward packets reliably from source to destination
⦿ True ○ False
3. Packet switching is more useful in bursty traffic
⦿ True ○ False
4. A phone network uses packet switching
⦿ True ○ False
5. HTML is a Protocol for describing web contents
⦿ True ○ False

[Submit]

Thank you for participating in online Exam

Yours results stored in our database

Participants and their Marks

Seat_no	Name	Marks
1	abcd	4
1	abcd	4
2	abcdefgh	4
2	abcdefgh	10
1	kumar	10
1	kumar	10
1	kumar	10
1	abcd	4