EXPERIMENT-08

AIM of EXPERIMENT:-Design a jsp with web application.

(Q)-8.1. Make a quiz web application(minimum 5 questions without using database).

Ans:

```
Index1.html
                        ☑ Test.java
                                 Profile.jsp

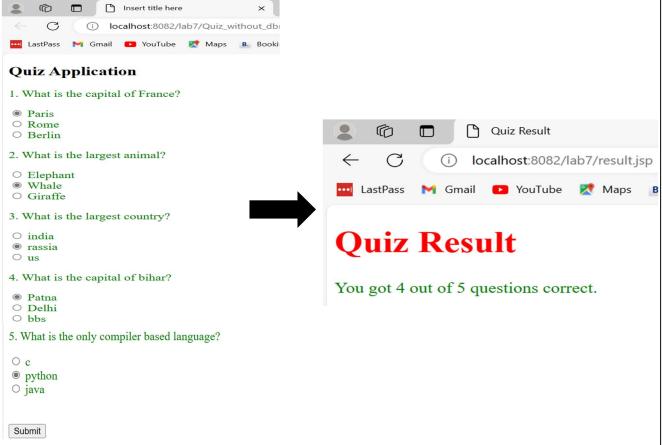
☐ Test2.java  
☐ *Quiz witho... × ☐ result.jsp

           Index.html
1 //Esperiment-08
 2 // AIM:-JSP WITH WEB APPLICATION
 3 // 1. make a quiz web application (minm 10 questions without using database)
4 <%@ page language="java" contentType="text/html; charset=ISO-8859-1"
       pageEncoding="ISO-8859-1"%>
 6 <! DOCTYPE html>
 7⊖<html>
 80<head>
 9 <meta charset="ISO-8859-1">
10 <title>Insert title here</title>
11 </head>
12⊖ <body>
13 <h2>Quiz Application</h2>
14
15⊝
       <form action="result.jsp" method="post">
16
           < -- Question 1 --%>
17⊖
           <FONT SIZE=4 COLOR=Green>
18
           1. What is the capital of France?
19
            <input type="radio" name="q1" value="Paris"> Paris<br>
20
           <input type="radio" name="q1" value="Rome"> Rome<br>
           <input type="radio" name="q1" value="Berlin"> Berlin<br>
21
22
23
           <%-- Question 2 --%>
<u>$24</u>
           2. What is the largest animal?
25
           <input type="radio" name="q2" value="Elephant"> Elephant<br/><br/>br>
26
           <input type="radio" name="q2" value="Whale"> Whale<br>
27
           <input type="radio" name="q2" value="Giraffe"> Giraffe<br>
28
            <%-- Question 3 --%>
<u>a</u>29
           3. What is the largest country?
           <input type="radio" name="q3" value="india"> india<br>
30
           <input type="radio" name="q3" value="rassia"> rassia<br>
31
           <input type="radio" name="q3" value="us"> us<br>
32
33
            <%-- Question 4 --%>
           4. What is the capital of bihar?
A34
35
           <input type="radio" name="q4" value="Patna"> Patna<br>
           <input type="radio" name="q4" value="Delhi"> Delhi<br>
36
37
           <input type="radio" name="q4" value="bbs"> bbs<br>
38
            < -- Question 5 --%>
           5. What is the only compiler based language?
139
40
           <input type="radio" name="q5" value="C"> c<br>
          <input type="radio" name="q5" value="python"> python<br>
41
          <input type="radio" name="q5" value="java"> java<br>
42
43
           < -- Add more questions if needed --%>
44
45
           <br><br><br>>
           <input type="submit" value="Submit">
46
47
           </FONT><BR>
       </form>
48
49 </body>
50 </html>
```

Result.jsp: Page.No:28

```
result.jsp ×
Index1.html Index.html
                      Test.java
 1 <%@ page language="java" contentType="text/html; charset=ISO-8859-1"
       pageEncoding="ISO-8859-1"%>
 3 <!DOCTYPE html>
 4⊖<html>
 5 <head>
 6 <meta charset="ISO-8859-1">
 7⊖<head>
       <meta charset="UTF-8">
 9
       <title>Quiz Result</title>
10 </head>
110 < body>
12⊖
       <FONT SIZE=4 COLOR=red>
13
       <h1>Quiz Result</h1>
14
       </FONT>
15
       < -- Retrieve submitted answers --%>
16⊝
       < %
17
           String ql = request.getParameter("ql");
18
           String q2 = request.getParameter("q2");
19
           String q3 = request.getParameter("q3");
20
           String q4 = request.getParameter("q4");
21
           String q5 = request.getParameter("q5");
22
           // Add more variables if needed for additional questions
23
24
           // Correct answers
25
           String correctAnswer1 = "Paris";
26
           String correctAnswer2 = "Whale";
27
           String correctAnswer3 = "rassia";
28
           String correctAnswer4 = "Patna";
29
           String correctAnswer5 = "C";
30
           int score = 0;
31
           // Check answers and calculate score
32
           if (q1 != null && q1.equals(correctAnswer1)) {
33
               score++;
34
35
           if (q2 != null && q2.equals(correctAnswer2)) {
36
37
 38
            if (q3 != null && q3.equals(correctAnswer3)) {
 39
                score++;
 40
 41
           if (q4 != null && q4.equals(correctAnswer4)) {
 42
                score++;
 43
 44
            if (q5 != null && q5.equals(correctAnswer5)) {
 45
                score++;
 46
            }
 47
            // Add more checks for additional questions
 48
        8>
 490
        <FONT SIZE=4 COLOR=Green>
        <%-- Display result --%>
∆51
        You got <%= score %> out of 5 questions correct.
 52
        </FONT><BR>
 53 </body>
54 </html>
```

OUTPUT:- Page.No:29



(Q)-8.2. Make a quiz web application(minimum 5 questions with using database).

Ans:

```
🖟 Index1.html 🖟 Index.html 🖟 Test.java 🗎 Profile.jsp 🖟 Test2.java 🖟 Index.html 🗎 *Quizwithdbms.jsp × 🖺 SubmitQuiz.jsp
 1 <%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>
 2 <%@ page import="java.sql.*" %>
 3 <!DOCTYPE html>
 4⊖<html>
 50 < head>
       <meta charset="UTF-8">
 7
       <title>Quiz</title>
 8 </head>
 9⊖<body>
10
       <h1>Quiz</h1>
       <form action="SubmitQuiz.jsp" method="post">
11⊖
12⊖
13
                Connection con = null;
                Statement stmt = null;
15
                ResultSet rs = null;
16
                    Class.forName("com.mysql.jdbc.Driver");
18
                    con = DriverManager.getConnection("jdbc:mysql://localhost:3306/sajan1","root","Sajan@12");
19
                    stmt = con.createStatement();
                    rs = stmt.executeQuery("SELECT * FROM questions");
20
                    int questionNumber = 1;
22
                    while(rs.next()) {
23
                        String question = rs.getString("question");
24
                        String option1 = rs.getString("option1");
                        String option2 = rs.getString("option2");
                        String option3 = rs.getString("option3");
                        String option4 = rs.getString("option4");
           9>
```

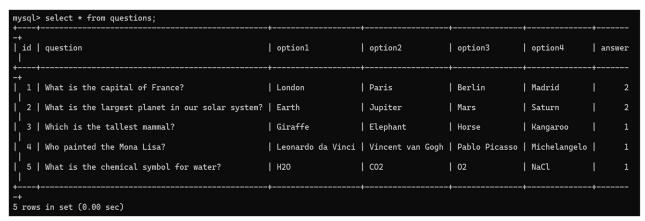
```
29
                       <h3>Question <%= questionNumber %>: <%= question %></h3>
                                                                                                                Page.No:30
                       <input type="radio" name="answer<%= questionNumber %>" value="1"><%= option1 %><br>
30
                       <input type="radio" name="answer<%= questionNumber %>" value="2"><%= option2 %><br>
31
                       <input type="radio" name="answer<%= questionNumber %>" value="3"><%= option3 %><br>
32
                       <input type="radio" name="answer<%= questionNumber %>" value="4"><%= option4 %><br>
33
34⊖
           <8
35
                       questionNumber++;
36
               } catch (Exception e) {
37
38
                   e.printStackTrace();
39
               } finally {
40
                   try {
41
                       if(rs != null) rs.close();
42
                       if(stmt != null) stmt.close();
43
                       if(con != null) con.close();
44
                   } catch (Exception e) {
45
                       e.printStackTrace();
46
47
48
49
           <button type="submit">Submit</button>
50
      </form>
51 </body>
52 </html>
```

SubmitQuiz.jsp:

```
🖟 Index1.html 🖟 Index.html 🖟 Test.java 🐞 Profile.jsp 🖟 Test2.java 🖟 Index.html 🗎 *Quizwithdbms.jsp 🗎 SubmitQuiz.jsp 🗡
 1 <%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>
 2 <%@ page import="java.sql.*" %>
 3 <!DOCTYPE html>
 40<html>
 50<head>
       <meta charset="UTF-8">
       <title>Quiz Result</title>
 8 </head>
 9⊖<body>
10
       <h1>Quiz Result</h1>
11⊖
12
            // Retrieve submitted answers from the request
            String[] userAnswers = new String[5]; // Assuming there are 5 questions
14
            for (int i = 1; i <= 5; i++) {
               userAnswers[i - 1] = request.getParameter("answer" + i);
16
18
            // Connect to the database and retrieve correct answers
19
            Connection con = null;
20
            Statement stmt = null;
21
           ResultSet rs = null;
22
            try {
23
                Class.forName("com.mysql.jdbc.Driver");
24
               con = DriverManager.getConnection("jdbc:mysql://localhost:3306/sajan1", "root", "Sajan@12");
25
               stmt = con.createStatement();
26
               rs = stmt.executeQuery("SELECT answer FROM questions");
               int questionNumber = 0; // Start from 0 since arrays are zero-indexed
               int score = 0;
                while (rs.next()) {
30
                    int correctAnswer = rs.getInt("answer");
31
                    if (userAnswers[questionNumber] != null && Integer.parseInt(userAnswers[questionNumber]) == correctAnswer) {
32
                        score++;
33
34
                    questionNumber++;
35
       8>
```

```
37
               You scored <%= score %> out of 5.
38⊖
       <8
39
           } catch (Exception e) {
40
               e.printStackTrace();
41
       8>
42
               Sorry, there was an error processing your quiz result.
43⊖
       <8
44
           } finally {
45
               try {
46
                   if(rs != null) rs.close();
47
                   if(stmt != null) stmt.close();
48
                   if(con != null) con.close();
49
               } catch (Exception e) {
50
                   e.printStackTrace();
51
52
53
       %>
54 </body>
55 </html>
```

OUTPUT:-



You got 5 out of 5 questions correct.



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