**index.html**

<html>

<body>

<form method="post" action ="examcontrol">

<h1>QUIZ!!!!!!</h1>

<pre>1.There are 4 questions on the quiz with four options. Only choose one.

2. There is no negative marking.

3. Each question carries twenty-five marks.

4. Do not leave any question blank.

5.Do not indulge in malpractice.

6.At the end, the score will be displayed</pre>

<input type ="submit" value="Agree and continue">

</form>

</body>

</html>

**web.xml**

<web-app>

<servlet>

<servlet-name>loginservlet</servlet-name>

<servlet-class>examcontroller</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>loginservlet</servlet-name>

<url-pattern>/examcontrol</url-pattern>

</servlet-mapping>

<servlet>

<servlet-name>anwservlet</servlet-name>

<servlet-class>anscontroller</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>anwservlet</servlet-name>

<url-pattern>/anscontrol</url-pattern>

</servlet-mapping>

</web-app>

**examcontroller.java**

import Bean.questionbean;

import DAO.questionDAO;

import javax.servlet.http.\*;

import javax.servlet.\*;

import java.io.\*;

public class examcontroller extends HttpServlet

{

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

{

res.setContentType("text/html");

PrintWriter out=res.getWriter();

//questionbean qbean=new questionbean();

questionDAO dao=new questionDAO();

questionbean qbean=dao.calldao();

HttpSession s=req.getSession(true);

s.setAttribute("qbean",qbean);

req.getRequestDispatcher("exam.jsp").forward(req,res);

}

}

**questionbean.java**

package Bean;

public class questionbean

{

private String q[]=new String[5];

private String ch1[]=new String[5];

private String ch2[]=new String[5];

private String ch3[]=new String[5];

private String ch4[]=new String[5];

public void setQ(int i,String q1)

{

this.q[i]=q1;

}

public void setCh1(int i,String ch)

{

this.ch1[i]=ch;

}

public void setCh2(int i,String ch)

{

this.ch2[i]=ch;

}

public void setCh3(int i,String ch)

{

this.ch3[i]=ch;

}

public void setCh4(int i,String ch)

{

this.ch4[i]=ch;

}

public String getQ(int i)

{

return q[i];

}

public String getCh1(int i)

{

return ch1[i];

}

public String getCh2(int i)

{

return ch2[i];

}

public String getCh3(int i)

{

return ch3[i];

}

public String getCh4(int i)

{

return ch4[i];

}

}

**questionDAO.java**

package DAO;

import java.sql.\*;

import java.io.\*;

import Bean.questionbean;

public class questionDAO

{

public questionbean calldao()

{

String db\_url="jdbc:mysql://localhost:3306/exam";

String user="root";

String pass="vaishu";

questionbean qbean=new questionbean();

try

{

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

Connection con=DriverManager.getConnection(db\_url,user,pass);

Statement stmt=con.createStatement();

ResultSet rs=stmt.executeQuery("select \* from questions");

int i=0;

while(rs.next())

{

qbean.setQ(i,rs.getString(2));

qbean.setCh1(i,rs.getString(3));

qbean.setCh2(i,rs.getString(4));

qbean.setCh3(i,rs.getString(5));

qbean.setCh4(i,rs.getString(6));

i++;

}

return qbean;

}

catch(Exception e)

{

System.out.println("Exception"+e);

}

return qbean;

}

}

**exam.jsp**

<%@ page import="Bean.questionbean" %>

<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>

<%@ taglib uri="http://java.sun.com/jsp/jstl/sql" prefix="sql" %>

<html>

<body>

<%

int i,j;

String q[]=new String[4];

String ch1[]=new String[4];

String ch2[]=new String[4];

String ch3[]=new String[4];

String ch4[]=new String[4];

questionbean qbean=(questionbean)session.getAttribute("qbean");

for(i=0;i<4;i++)

{

q[i]=qbean.getQ(i);

ch1[i]=qbean.getCh1(i);

ch2[i]=qbean.getCh2(i);

ch3[i]=qbean.getCh3(i);

ch4[i]=qbean.getCh4(i);

}

session.setAttribute("q",q);

session.setAttribute("ch1",ch1);

session.setAttribute("ch2",ch2);

session.setAttribute("ch3",ch3);

session.setAttribute("ch4",ch4);

%>

<form method="post" action="anscontrol">

<c:forEach var="i" begin="0" end="3">

<c:out value="${q[i]}"/><br>

<input type="radio" name="${i}" value="a">

<c:out value="${ch1[i]}"/>

<input type="radio" name="${i}" value="b">

<c:out value="${ch2[i]}"/>

<input type="radio" name="${i}" value="c">

<c:out value="${ch3[i]}"/>

<input type="radio" name="${i}" value="d">

<c:out value="${ch4[i]}"/><br><br>

</c:forEach>

<input type="submit" value="End quiz">

</form>

</body>

</html>

**anscontroller.java**

import Bean.ansbean;

import DAO.ansDAO;

import javax.servlet.http.\*;

import javax.servlet.\*;

import java.io.\*;

public class anscontroller extends HttpServlet {

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

{

res.setContentType("text/html");

PrintWriter out=res.getWriter();

ansbean abean=new ansbean();

ansDAO dao=new ansDAO();

int i;

for(i=0; i<4; i++) {

String ch = req.getParameter(""+i);

String ans = (ch.equals("a")?"a":ch.equals("b")?"b":ch.equals("c")?"c":ch.equals("d")?"d":"e");

abean.setAns(i, ans);

}

int score = dao.calcScore(abean);

HttpSession s=req.getSession(false);

s.setAttribute("score",score);

req.getRequestDispatcher("score.jsp").forward(req,res);

}

}

**ansbean.java**

package Bean;

public class ansbean{

private String ans[] = new String[5];

public void setAns(int i, String ch) {

this.ans[i] = ch;

}

public String getAns(int i) {

return ans[i];

}

}

**ansDAO.java**

package DAO;

import Bean.ansbean;

import java.sql.\*;

import java.io.\*;

import Bean.questionbean;

public class ansDAO

{

public int calcScore(ansbean b)

{

String db\_url="jdbc:mysql://localhost:3306/exam";

String user="root";

String pass="vaishu";

int score=0;

try

{

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

Connection con=DriverManager.getConnection(db\_url,user,pass);

Statement stmt=con.createStatement();

ResultSet rs=stmt.executeQuery("select ans from questions");

int i=0;

while(rs.next())

{

if(b.getAns(i).equals(rs.getString(1))) {

score += 20;

}

i++;

}

return score;

}

catch(Exception e)

{

System.out.println("Exception"+e);

}

return score;

}

}

**score.jsp**

<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>

<html>

<body>

<%

int score = (int)session.getAttribute("score");

%>

<c:out value="Thank You for taking the quiz."/><br>

<c:out value="Your score is : ${score}"/>

</body>

</html>

**OUTPUT:**





