[**Tutorial-6(Session\_Cookies)**](https://canvas.rku.ac.in/courses/4068/modules/items/350393)

| **Q-1** | **Write a program a fetch rollno and name using HTML File. Implement it by shifting to java file and adding percentage and displaying it.(Hidden)** |
| --- | --- |
| **Code** | **First.html**  <!DOCTYPE html>  <html>  <form action="firstservlet">  Name<input type="text" name="u1"/>  <br>  Roll no.<input type="text" name="u2"/>  <br>  <input type="submit" value="submit"/>  </form>  </html> |
| **Code** | **Firstservlet.java**  import java.io.IOException;  import java.io.PrintWriter;  import javax.servlet.ServletException;  import javax.servlet.annotation.WebServlet;  import javax.servlet.http.HttpServlet;  import javax.servlet.http.HttpServletRequest;  import javax.servlet.http.HttpServletResponse;  /\*\*  \* Servlet implementation class firstservlet  \*/  @WebServlet("/firstservlet")  public class firstservlet extends HttpServlet {  private static final long serialVersionUID = 1L;    /\*\*  \* @see HttpServlet#HttpServlet()  \*/  public firstservlet() {  super();  // TODO Auto-generated constructor stub  }  /\*\*  \* @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)  \*/  protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {  // TODO Auto-generated method stub  //response.getWriter().append("Served at: ").append(request.getContextPath());    try {    response.setContentType("text/html");  PrintWriter out=response.getWriter();    String n=request.getParameter("u1");  String r=request.getParameter("u2");    out.print("welcome "+n);  out.print("<br>");  out.print("roll no."+r);  out.print("<br>");  out.print("<form action='Secondservlet'>");  out.print("<input type='hidden' name='u1' value='"+n+"'>");  out.print("<input type='hidden' name='u2' value='"+r+"'>");  out.print("Pr<input type='text' name='u3' ><br>");  out.print("<input type='submit' value='submit'>");  out.print("</form>");    }  catch(Exception e)  {  System.out.print(e);  }  }  /\*\*  \* @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)  \*/  protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {  // TODO Auto-generated method stub  doGet(request, response);  }  } |
| **Code** | **Secondservlet.java**  import java.io.IOException;  import java.io.PrintWriter;  import javax.servlet.ServletException;  import javax.servlet.annotation.WebServlet;  import javax.servlet.http.HttpServlet;  import javax.servlet.http.HttpServletRequest;  import javax.servlet.http.HttpServletResponse;  /\*\*  \* Servlet implementation class Secondservlet  \*/  @WebServlet("/Secondservlet")  public class Secondservlet extends HttpServlet {  private static final long serialVersionUID = 1L;    /\*\*  \* @see HttpServlet#HttpServlet()  \*/  public Secondservlet() {  super();  // TODO Auto-generated constructor stub  }  /\*\*  \* @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)  \*/  protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {  // TODO Auto-generated method stub  //response.getWriter().append("Served at: ").append(request.getContextPath());    try  {  response.setContentType("text/html");  PrintWriter out=response.getWriter();    String n=request.getParameter("u1");  String r=request.getParameter("u2");  String p=request.getParameter("u3");    out.print("hello "+n);  out.print("<br>");  out.print("Roll no. "+r);  out.print("<br>");  out.print("percentage: "+p);      out.close();  }  catch(Exception e)  {  System.out.print(e);  }  }  /\*\*  \* @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)  \*/  protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {  // TODO Auto-generated method stub  doGet(request, response);  }  } |
| **SnapShot** |  |
|  |  |
|  |  |
| **Q-2** | **Write a program to perform following task.** |
|  | **1. Create Cookie.**  **2. Read Cookie.**  **3. Delete Cookie.** |
| **Code** | **First.java**  import java.io.IOException;  import java.io.PrintWriter;  import javax.servlet.ServletException;  import javax.servlet.annotation.WebServlet;  import javax.servlet.http.Cookie;  import javax.servlet.http.HttpServlet;  import javax.servlet.http.HttpServletRequest;  import javax.servlet.http.HttpServletResponse;  /\*\*  \* Servlet implementation class First  \*/  @WebServlet("/First")  public class First extends HttpServlet {  private static final long serialVersionUID = 1L;    /\*\*  \* @see HttpServlet#HttpServlet()  \*/  public First() {  super();  // TODO Auto-generated constructor stub  }  /\*\*  \* @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)  \*/  protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {  // TODO Auto-generated method stub  //response.getWriter().append("Served at: ").append(request.getContextPath());  PrintWriter pw=response.getWriter();  try {  Cookie cookie = new Cookie("First\_name", "Jigo");  cookie.setMaxAge(3600);  response.addCookie(cookie);    Cookie cookie2= new Cookie("Last\_name", "pako");  cookie2.setMaxAge(3600);  response.addCookie(cookie2);  }  catch(Exception e)  {  pw.println(e);  }  pw.println("<html><body><a href='Second'>CheckCookie</a></body></html>");  }          /\*\*  \* @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)  \*/  protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {  // TODO Auto-generated method stub  doGet(request, response);  }  } |
| **Code** | **Second.java**  import java.io.IOException;  import java.io.PrintWriter;  import javax.servlet.ServletException;  import javax.servlet.annotation.WebServlet;  import javax.servlet.http.Cookie;  import javax.servlet.http.HttpServlet;  import javax.servlet.http.HttpServletRequest;  import javax.servlet.http.HttpServletResponse;  /\*\*  \* Servlet implementation class Second  \*/  @WebServlet("/Second")  public class Second extends HttpServlet {  private static final long serialVersionUID = 1L;    /\*\*  \* @see HttpServlet#HttpServlet()  \*/  public Second() {  super();  // TODO Auto-generated constructor stub  }  /\*\*  \* @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)  \*/  protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {  // TODO Auto-generated method stub  //response.getWriter().append("Served at: ").append(request.getContextPath());    response.setContentType("text/html");  PrintWriter pw = response.getWriter();    Cookie cookie[] = request.getCookies();    for(int i =0; i<cookie.length; i++) {    pw.println(cookie[i].getName()+ ":"+cookie[i].getValue() + "<br>");    }    pw.println("<html><body><a href='Third'>DeleteCookie</a></body></html>");      }  /\*\*  \* @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)  \*/  protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {  // TODO Auto-generated method stub  doGet(request, response);  }  } |
| **Code** | **Third.java**  import java.io.IOException;  import java.io.PrintWriter;  import javax.servlet.ServletException;  import javax.servlet.annotation.WebServlet;  import javax.servlet.http.Cookie;  import javax.servlet.http.HttpServlet;  import javax.servlet.http.HttpServletRequest;  import javax.servlet.http.HttpServletResponse;  /\*\*  \* Servlet implementation class Third  \*/  @WebServlet("/Third")  public class Third extends HttpServlet {  private static final long serialVersionUID = 1L;    /\*\*  \* @see HttpServlet#HttpServlet()  \*/  public Third() {  super();  // TODO Auto-generated constructor stub  }  /\*\*  \* @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)  \*/  protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {  // TODO Auto-generated method stub  //response.getWriter().append("Served at: ").append(request.getContextPath());    response.setContentType("text/html");      Cookie cookie = new Cookie("First\_name", "");  cookie.setMaxAge(0);  response.addCookie(cookie);    Cookie cookie2= new Cookie("Last\_name", "");  cookie2.setMaxAge(0);  response.addCookie(cookie2);        }  /\*\*  \* @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)  \*/  protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {  // TODO Auto-generated method stub  doGet(request, response);  }  } |
| **SnapShot** |  |
|  |  |
|  |  |
| **Q-3** | **Write a program to implement a Login page and Perform Session attributes.** |
| **Code** | **Html File**  <!DOCTYPE html>  <html>  <head>  <meta charset="ISO-8859-1">  <title>Login page</title>  </head>  <body>  <form action ="First">  Name:<input type="text" name="n1" /><br><br>  Password:<input type="password" name="n2" /><br><br>  <input type="submit" value="Submit"/>  </form>  </body>  </html> |
| **Code** | **Java File**  import java.io.IOException;  import java.io.PrintWriter;  import javax.servlet.ServletException;  import javax.servlet.annotation.WebServlet;  import javax.servlet.http.Cookie;  import javax.servlet.http.HttpServlet;  import javax.servlet.http.HttpServletRequest;  import javax.servlet.http.HttpServletResponse;  import javax.servlet.http.HttpSession;  /\*\*  \* Servlet implementation class First  \*/  @WebServlet("/First")  public class First extends HttpServlet {  private static final long serialVersionUID = 1L;    /\*\*  \* @see HttpServlet#HttpServlet()  \*/  public First() {  super();  // TODO Auto-generated constructor stub  }  /\*\*  \* @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)  \*/  protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {  // TODO Auto-generated method stub  PrintWriter pw=response.getWriter();  response.setContentType("text/html");  String n1=request.getParameter("n1");  String n2=request.getParameter("n2");  HttpSession session=request.getSession();  session.setAttribute("uname", n1);  session.setAttribute("pass", n2);  pw.println("<a href='Second'>Visit</a>");  }  /\*\*  \* @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)  \*/  protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {  // TODO Auto-generated method stub  doGet(request, response);  }  } |
| **Code** | **Java File**  import java.io.IOException;  import java.io.PrintWriter;  import javax.servlet.ServletException;  import javax.servlet.annotation.WebServlet;  import javax.servlet.http.Cookie;  import javax.servlet.http.HttpServlet;  import javax.servlet.http.HttpServletRequest;  import javax.servlet.http.HttpServletResponse;  import javax.servlet.http.HttpSession;  /\*\*  \* Servlet implementation class Second  \*/  @WebServlet("/Second")  public class Second extends HttpServlet {  private static final long serialVersionUID = 1L;    /\*\*  \* @see HttpServlet#HttpServlet()  \*/  public Second() {  super();  // TODO Auto-generated constructor stub  }  /\*\*  \* @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)  \*/  protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {  // TODO Auto-generated method stub  response.setContentType("text/html");  PrintWriter pw=response.getWriter();  HttpSession s= request.getSession(false);  String n=(String)s.getAttribute("uname");  String n1=(String)s.getAttribute("pass");  pw.println(n);  pw.println(n1);  }  /\*\*  \* @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)  \*/  protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {  // TODO Auto-generated method stub  doGet(request, response);  }  } |
| **SnapShot** |  |

[**Tutorial-7 (JSP)**](https://canvas.rku.ac.in/courses/4068/modules/items/350394)

| **Q-1** | **Write a JSP Page to print your roll no and name** |
| --- | --- |
| **Code** | **JSP File**  <%= "Name : vrushabh <br>" %>  <%= "RollNo : 57 <br>" %> |
| **Output** |  |
|  |  |
|  |  |
| **Q-2** | **Write a program to check whether it is even or odd** |
| **Code** | **JSP File**  <%    int a = 3;  if(a % 2 == 0){    out.println("This is odd");    }  else{  out.println("This is Even");  }  %> |
| **Output** |  |
|  |  |
| **Q-3** | **Write a program to print series of Even** |
| **Code** | <%  int n=20;  for(int i=1;i<=n;i++)  {    if(i%2==0)  {  out.println(i);  }  }  %> |
| **Output** |  |
|  |  |
|  |  |
| **Q-4** | **Write a program to print Odd Series** |
| **Code** | <%  int n=20;  for(int i=1;i<=n;i++)  {    if(i%2!=0)  {  out.println(i);  }  }  %> |
| **Output** |  |
|  |  |
|  |  |
| **Q-5** | **Write a program to perform +,-,%,\*** |
| **Code** | <%  int n=20,n1=5;  out.println("Addition is "+(n+n1));  out.println("<br>");  out.println("Subtraction is "+(n-n1));  out.println("<br>");  out.println("Divide is "+(n/n1));  out.println("<br>");  out.println("Multiplication is "+(n\*n1));  out.println("<br>");  %> |
| **Output** |  |
|  |  |
|  |  |
| **Q-6** | **Generate Fibonacci Series using for loop.** |
| **Code** | <%      int n=15;    int n1=0,n2=1,n3;    for(int i =2; i<=n; i++) {    n3 = n1+n2;  out.println(""+n3);  n1=n2;  n2=n3;    }    %> |
| **Output** |  |
|  |  |
|  |  |
| **Q-7** | **Write a program of Factorial** |
| **Code** | <%    int fact = 1;  int n= 20;    for(int f=1; f<=n; f++){    fact = fact \* f;    }  out.println("Factorial is := "+fact);  %> |
| **Output** |  |
|  |  |
|  |  |
| **Q-8** | **Perform Palindrome Number** |
| **Code** | <%  int n=1551;  int reverse=0;  int original;  original=n;  while(n!=0)  {  int remainder=n%10;  reverse = reverse \* 10 + remainder;  n /= 10;  }    if(original==reverse)  {  out.println("number is palindrome");  }  else  {  out.println("number is not palindrome");  }  %> |
| **Output** |  |
|  |  |
|  |  |
| **Q-9** | **Check whether it Armstrong number or not** |
| **Code** | <%  int n=153;  int sum=0;  int remainder;  int temp;  temp=n;  while(n!=0)  {  remainder=n%10;  sum=sum+(remainder\*remainder\*remainder);  n=n/10;    }  if(temp==sum)  {  out.println("number is armstrong");  }  else  {  out.println("number is not armstrong");  }  %> |
| **Output** |  |
|  |  |
|  |  |
| **Q-10** | **Check whether it Prime number or not** |
| **Code** | <%  boolean a=true;  int n=19;  for(int i=2;i<n;i++)  {  if(n%i==0)  {  a=false;  }  }  if(a== true)  {  out.println("Number is prime");  }  else  {  out.println("Number is not a prime");  }  %> |
| **Output** |  |
|  |  |
|  |  |
| **Q-11** | **Color BackFont** |
| **Code** | <html>  <head>  <meta charset=*"ISO-8859-1"*>  <title>color background</title>  </head>  <%  String bgColor = request.getParameter("bgColor");  **if**(bgColor==**null**)  {  bgColor = "blue";  }  %>  <body bgColor=*"*<%=bgColor%>*"*>  <h2 align=*"center"* Style="color:*red*; ">Vrushabh Ramani</h2>  <marquee Style="font-size:*50px*;">R.K. University</marquee>  </body>  </html> |
| **Output** |  |
|  |  |
|  |  |
| **Q-12** | **Calculation** |
| **Code** | <html>  <head>  </head>  <%  **try** {  **int** num1 = Integer.parseInt( request.getParameter("num1"));  **int** num2 = Integer.parseInt( request.getParameter("num2"));  String s = request.getParameter("op");  **switch** (s) {  **case** "Add" :  out.println(num1 + num2);  **break**;  **case** "Sub" :  out.println(num1 - num2);  **break**;  **case** "Mul" :  out.println(num1 \* num2);  **break**;  **case** "Div" :  out.println(num1 / num2);  **break**;  }  }  **catch** (Exception e) {  out.println(e);  }  %>  <body>  <form >  Number1 : <input type=*"number"* name=*"num1"*></input>  <br/>  <br/>  Number2 : <input type=*"number"* name=*"num2"*></input>  <br/>  <br/>  <input type=*"submit"* value=*"Add"* name=*"op"*>  <input type=*"submit"* value=*"Sub"* name=*"op"*>  <input type=*"submit"* value=*"Mul"* name=*"op"*>  <input type=*"submit"* value=*"Div"* name=*"op"*>  </form>  </body>  </html> |
| **Output** |  |
| **Q-13** | **Database Connectivity** |
| **Code** | <%@page contentType="text/html"%>  <%@page pageEncoding="UTF-8"%>  <%@page import="java.sql.\*"%>  <html>  <body>  <form action="NewFile.jsp" method="get">  No<input type="text" name="no1"/>  <br>  Name <input type="text" name="name"/>  <br>  <input type="submit" name="submit" value="submit"/>  </form>  <%  String u=request.getParameter("no1");  String p=request.getParameter("name");  String n=request.getParameter("submit");  if(n!=null)  {  try  {  Class.forName("com.mysql.jdbc.Driver");  Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/student","root","");  PreparedStatement ps=con.prepareStatement("insert into stud values (?,?)");  out.println("Connected</br>");    ps.setString(1,u);  ps.setString(2,p);  ps.executeUpdate();  con.close();  out.println("Inserted successfully");  }  catch(Exception ex)  {  out.println(ex);  }  }  %>  </body>  </html> |
| **Output** |  |
| **Q-14** | **Print Hello** |
| **Code** | <%@ page language="java" contentType="text/html; charset=UTF-8"  pageEncoding="UTF-8"%>  <!DOCTYPE html>  <html>  <head>  <meta charset="UTF-8">  <title>Insert title here</title>  </head>  <body>  <%= "Hello Vrushabh" %>  </body>  </html> |
| **Output** |  |
|  |  |
|  |  |
| **Q-15** | **User by Print** |
| **Code** | <%@ page language="java" contentType="text/html; charset=UTF-8"  pageEncoding="UTF-8"%>  <!DOCTYPE html>  <html>  <head>  <meta charset="UTF-8">  <title>Insert title here</title>  </head>  <body>  <% out.println ("Hello"); %><br>  <% out.println ("RK University"); %>    </body>  </html> |
| **Output** |  |
|  |  |
|  |  |
| **Q-16** | **Write a Program in JSP take a button in html page while clicking on button it should go to login page,while clicking on login page username & password & again click on submit button 3rd page generate username and password** |
| **Code** | **Html file**  <!DOCTYPE html>  <html>  <head>  <meta charset="UTF-8">  <title>Insert title here</title>  </head>  <body>  <form action="2.jsp" method="get">  <input type="submit" value="submit"/>  </form>  </body>  </html> |
| **Code** | **JSP File**  <%@ page language="java" contentType="text/html; charset=ISO-8859-1"  pageEncoding="ISO-8859-1"%>  <html>  <form action="3.jsp" name="loginpage" method="get">  Username:-<input type="text" name="n" />  Password:-<input type="password" name="p"/>  <input type="submit" value="submit"/>  </form>    </html> |
| **Code** | **JSP File**  <%@ page language="java" contentType="text/html; charset=ISO-8859-1"  pageEncoding="ISO-8859-1"%>  <%  String username;  String password;  username = request.getParameter("n");  password=request.getParameter("p");  out.println("Hello" +username);  out.println("password" +password);  %> |
| **Output** |  |

[**Tutorial-8 (JSP)**](https://canvas.rku.ac.in/courses/4068/modules/items/352037)

| **Q-1** | **Connectivity (JSP)** |
| --- | --- |
| **Code** | **<%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"***  **pageEncoding=*"UTF-8"*%>**  **<%@ page import = *"java.sql.\*"* %>**  **<%**  **try**  **{ int rollno = Integer.parseInt(request.getParameter("rollno"));**  **String name = request.getParameter("name");**  **int m1 = Integer.parseInt(request.getParameter("m1"));**  **int m2 = Integer.parseInt(request.getParameter("m2"));**  **int m3 = Integer.parseInt(request.getParameter("m3"));**  **int m4 = Integer.parseInt(request.getParameter("m4"));**  **int m5 = Integer.parseInt(request.getParameter("m5"));**  **int total = m1 + m2 + m3 + m4 + m5;**  **int per = total/5;**  **ResultSet rs;**  **Class.forName("com.mysql.jdbc.Driver");**  **Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/test","root","");**    **String sql = "Insert into student (rollno, name, m1, m2, m3, m4, m5, total, percentage) values (?,?,?,?,?,?,?,?,?)";**    **PreparedStatement st = con.prepareStatement(sql);**    **st.setInt(1, rollno);**  **st.setString(2, name);**  **st.setInt(3, m1);**  **st.setInt(4, m2);**  **st.setInt(5, m3);**  **st.setInt(6, m4);**  **st.setInt(7, m5);**  **st.setInt(8, total);**  **st.setInt(9, per);**      **int rowInserted = st.executeUpdate();**  **if(rowInserted > 0) {**  **out.println("Success");**  **}**    **}**  **catch(Exception e)**  **{**  **out.println(e);**  **}**  **%>**  **<!DOCTYPE html>**  **<html>**  **<head>**  **<meta charset=*"UTF-8"*>**  **<title>Insert title here</title>**  **</head>**  **<body>**  **<form action=*"conne.jsp"* method=*"post"*>**  **RollNO : <br><input type=*"text"* name=*"rollno"*>**  **<br>**  **Name : <br><input type=*"text"* name=*"name"*>**  **<br>**  **Mark1 : <br><input type=*"text"* name=*"m1"*>**  **<br>**  **Mark2 : <br><input type=*"text"* name=*"m2"*>**  **<br>**  **Mark3 : <br><input type=*"text"* name=*"m3"*>**  **<br>**  **Mark4 : <br><input type=*"text"* name=*"m4"*>**  **<br>**  **Mark5 : <br><input type=*"text"* name=*"m5"*>**  **<br>**  **<input type=*"submit"*>**  **</form>**  **</body>**  **</html>** |
| **Output** |  |
| **Output** |  |
|  |  |
|  |  |
| **Q-2** | **PGVCL Bill** |
| **Code** | **<%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"***  **pageEncoding=*"UTF-8"*%>**  **<!DOCTYPE html>**  **<html>**  **<head>**  **<meta charset=*"UTF-8"*>**  **<title>Insert title here</title>**  **</head>**  **<body>**  **<form action = *"form.jsp"*>**  **number<br><input type=*"number"* name=*"customerid"* >**  **<br>**  **name<br><input type=*"text"* name=*"customername"* >**  **<br>**  **amount<br><input type=*"number"* name=*"customerammount"* >**  **<br>**  **email<br><input type=*"email"* name=*"customeremail"* >**  **<br>**  **mobile<br><input type=*"text"* name=*"customernumber"* >**  **<br>**  **<input type=*"submit"*>**  **</form>**  **<%**  **try{**  **int number=Integer.parseInt(request.getParameter("customerid"));**  **String name= request.getParameter("customername");**  **int ammount=Integer.parseInt(request.getParameter("customerammount"));**  **String email= request.getParameter("customeremail");**  **String mob= request.getParameter("customernumber");**  **out.print("<br>" + number);**  **out.print("<br>" + name);**  **out.print("<br>" + ammount);**  **out.print("<br>" + email);**  **out.print("<br>" + mob);**    **response.sendRedirect("https://www.onlinesbi.sbi/");**  **}**  **catch(Exception e){**  **out.print(e);**  **}**  **%>**  **</body>**  **</html>** |
| **Output** |  |
| **Output** |  |
|  |  |
|  |  |
| **Q-3** | **Pyramid** |
| **Code** | **<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"***  **pageEncoding=*"ISO-8859-1"*%>**  **<!DOCTYPE html>**  **<html>**  **<head>**  **<meta charset=*"ISO-8859-1"*>**  **<title>Insert title here</title>**  **</head>**  **<body>**  **<form action=*"pyramid.jsp"* method=*"get"*>**  **Rows : <input type=*"text"* name=*"n1"*>**  **<br/><br/>**  **<input type=*"submit"* value=*"submit"*>**  **</form>**    **<%**  **try**  **{**  **int rows = Integer.parseInt(request.getParameter("n1"));**  **for(int i = 1; i <= rows; i++)**  **{**  **for(int j = 1; j <= i; j++)**  **{**  **out.println(j+ " ");**  **}**  **out.println("<br/>");**  **}**  **}**  **catch(Exception e)**  **{**  **out.print(e);**  **}**  **%>**  **</body>**  **</html>** |
| **Output** |  |
| **Output** |  |
|  |  |
|  |  |
| **Q-4** | **Date and Time** |
| **Code** | **<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"***  **pageEncoding=*"ISO-8859-1"*%>**  **<%@page import=*"java.util.\*"* %>**  **<!DOCTYPE html>**  **<html>**  **<head>**  **<meta charset=*"ISO-8859-1"*>**  **<title>Display Date and Time</title>**  **</head>**  **<body>**  **<h1>Display Current Date and Time</h1>**  **<%**  **Date date = new Date();**  **out.print(date.toLocaleString());**  **%>**  **</body>**  **</html>** |
| **Output** |  |
|  |  |
|  |  |
| **Q-5** | **Mini Calculator** |
| **Code** | **<html>**  **<head>**  **<title>Calculator JSP</title>**  **</head>**  **<body>**  **<form action=*"#"* style="padding:*1%*">**  **<h1>Calculator JSP</h1>**  **<input type=*"number"* name=*"n1"* placeholder=*"Enter N1"*>**  **<br><br>**  **<input type=*"number"* name=*"n2"* placeholder=*"Enter N2"*>**  **<br><br>**  **<input type=*"submit"* name=*"op"* value=*"Add"* style="margin-right:*1%*">**  **<input type=*"submit"* name=*"op"* value=*"Sub"* style="margin-right:*1%*">**  **<input type=*"submit"* name=*"op"* value=*"Mul"* style="margin-right:*1%*">**  **<input type=*"submit"* name=*"op"* value=*"Div"* style="margin-right:*1%*">**  **</form>**  **<%**  **try**  **{**  **String op = request.getParameter("op");**    **int n1 = Integer.parseInt(request.getParameter("n1"));**  **int n2 = Integer.parseInt(request.getParameter("n2"));**    **switch(op)**  **{**  **case "Add":**  **out.println(n1+n2);**  **break;**    **case "Sub":**  **out.println(n1-n2);**  **break;**    **case "Mul":**  **out.println(n1\*n2);**  **break;**    **case "Div":**  **out.println(n1/n2);**  **break;**  **}**  **}**  **catch(Exception e)**  **{**    **}**    **%>**  **</body>**  **</html>** |
| **Output** |  |
| **Output** |  |
|  |  |
|  |  |
| **Q-6** | **JSP lifecycle of jsp** |
| **Code** | <%@ page language="java" contentType="text/html; charset=UTF-8"      pageEncoding="UTF-8"%>  <!DOCTYPE html>  <%! int counter;  public void jspInit()  {      counter = 0;  }  %>  <html>  <head>  <title>hello</title>  </head>  <body>  <%  out.println("the life cycle of jsp");  counter++;  %>  <p><%= counter %></p>  </body>  </html>  <%! public void jspDestroy()  {      System.out.println("destroy");  }  %> |
| **Output** |  |
|  |  |
|  |  |
| **Q-7** | **OUT print** |
| **Code** | <%@ page language="java" contentType="text/html; charset=UTF-8"      pageEncoding="UTF-8"%>  <!DOCTYPE html>  <html>  <head>  <meta charset="UTF-8">  <title>Insert title here</title>  </head>  <body>  <h1><%  out.println("first out");  %></h1>  </body>  </html> |
| **Output** |  |
|  |  |
|  |  |
| **Q-8** | **Request (add to number print sum)** |
| **Code** | **<%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"***  **pageEncoding=*"UTF-8"*%>**  **<!DOCTYPE html>**  **<html>**  **<head>**  **<meta charset=*"UTF-8"*>**  **<title>Insert title here</title>**  **</head>**  **<body>**  **<form action=*"add.jsp"*>**  **number 1 <br> <input type=*"text"* name=*"num1"*>**  **<br>**  **number 2 <br> <input type=*"text"* name=*"num2"*>**  **<br>**  **<input type=*"submit"*>**  **</form>**  **<%**  **int add;**  **try {**  **int a1 = Integer.parseInt(request.getParameter("num1"));**  **int a2 = Integer.parseInt(request.getParameter("num2"));**  **add = a1 + a2;**  **out.print(add);**  **}**  **catch(Exception e)**  **{**  **out.println(e);**  **}**  **%>**  **</body>**  **</html>** |
| **Output** |  |
| **Output** |  |
|  |  |
|  |  |
| **Q-9** | **Redirect page (javatpoint)** |
| **Code** | **<%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"***  **pageEncoding=*"UTF-8"*%>**  **<!DOCTYPE html>**  **<html>**  **<head>**  **<meta charset=*"UTF-8"*>**  **<title>Insert title here</title>**  **</head>**  **<body>**  **<%response.sendRedirect("https://www.javatpoint.com/jsp-tutorial"); %>**  **</body>**  **</html>** |
| **Output** |  |

[**Tutorial-9 (MVC)**](https://canvas.rku.ac.in/courses/4068/modules/items/352858)

| **Q-1** | **MVC** |
| --- | --- |
| **Code** | <form action=*"ControllerServlet"* method=*"post"*>  Name:<input type=*"text"* name=*"name"*><br>  Password:<input type=*"password"* name=*"password"*><br>  <input type=*"submit"* value=*"login"*>  </form> |
| **Code** | package com.javatpoint;  import java.io.IOException;  import java.io.PrintWriter;  import javax.servlet.RequestDispatcher;  import javax.servlet.ServletException;  import javax.servlet.http.HttpServlet;  import javax.servlet.http.HttpServletRequest;  import javax.servlet.http.HttpServletResponse;  public class ControllerServlet extends HttpServlet {    protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {  response.setContentType("text/html");  PrintWriter out=response.getWriter();    String name=request.getParameter("name");  String password=request.getParameter("password");    LoginBean bean=new LoginBean();  bean.setName(name);  bean.setPassword(password);  request.setAttribute("bean",bean);    boolean status=bean.validate();    if(status){  RequestDispatcher rd=request  .getRequestDispatcher("login-success.jsp");  rd.forward(request, response);  }  else{  RequestDispatcher rd=request  .getRequestDispatcher("login-error.jsp");  rd.forward(request, response);  }      }  @Override  protected void doGet(HttpServletRequest req, HttpServletResponse resp)  throws ServletException, IOException {  doPost(req, resp);  }    } |
| **Code** | **package** com.javatpoint;  **public** **class** LoginBean {  **private** String name,password;  **public** String getName() {  **return** name;  }  **public** **void** setName(String name) {  **this**.name = name;  }  **public** String getPassword() {  **return** password;  }  **public** **void** setPassword(String password) {  **this**.password = password;  }  **public** **boolean** validate(){  **if**(password.equals("admin")){  **return** **true**;  }  **else**{  **return** **false**;  }  }  } |
| **Code** | <%@page import=*"java.sql.DriverManager"*%>  <%@page import=*"java.sql.PreparedStatement"*%>  <%@page import=*"java.sql.Connection"*%>  <%@page import=*"com.javatpoint.LoginBean"*%>  <%  LoginBean bean=(LoginBean)request.getAttribute("bean");  out.print("Welcome, "+bean.getName());  out.println("<br/>");  LoginBean bean2=(LoginBean)request.getAttribute("bean");  out.print("Password, "+bean.getPassword());  %>  <p>You are successfully logged in!</p>  <form action=*"phone.jsp"* method=*"get"* name=*"login-jsp"*>  Date<input type=*"text"* name=*"d"*/>  <br/>  Phone no<input type=*"text"* name=*"p"*/>  <br/>  <input type=*"submit"* value=*"submit"*/>  </form> |
| **Code** | <p>Sorry! username or password error</p>  <%@ include file=*"index.jsp"* %> |
| **Code** | <%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*  pageEncoding=*"ISO-8859-1"*%>  <%@page import=*"java.sql.DriverManager"*%>  <%@page import=*"java.sql.PreparedStatement"*%>  <%@page import=*"java.sql.Connection"*%>  <%@page import=*"com.javatpoint.LoginBean"*%>  <%  LoginBean bean=(LoginBean)request.getAttribute("bean");  LoginBean bean2=(LoginBean)request.getAttribute("bean");    String u=request.getParameter("d");  String p=request.getParameter("p");  **try**  {  Class.forName("com.mysql.jdbc.Driver");  Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/student","root","");  PreparedStatement ps=con.prepareStatement("insert into stud values (?,?,?,?)");  out.println("Connected</br>");    ps.setString(1,u);  ps.setString(2,p);  ps.setString(3,bean.getName());  ps.setString(4,bean.getPassword());  ps.executeUpdate();  con.close();  out.println("Inserted succesfully");  }  **catch**(Exception ex)  {  out.println(ex);  }  %> |
| **SS** |  |
| **SS** |  |
| **SS** |  |
| **SS** |  |
|  |  |

[**Tutorial-10 (JSTL)**](https://canvas.rku.ac.in/courses/4068/modules/items/352859)

| **Q-1** | **print your name, address, age, rollno** |
| --- | --- |
| **Code** | <%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>  <c:out value= "Name: ramani vrushabh"/><br>  <c:out value=" roll no: 57"/><br>  <c:out value=" address: atkot"/><br>  <c:out value=" age: 20"/><br> |
| **Output** |  |
|  |  |
|  |  |
| **Q-2** | **print list of even numbers** |
| **Code** | <%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="a" %>  <a:forEach var="i" begin="1" end="10">  <a:if test="${i%2==0}">  Even Number is:<a:out value="${i}"/><br>  </a:if>  </a:forEach> |
| **Output** |  |
|  |  |
|  |  |
| **Q-3** | **print list of odd numbers** |
| **Code** | <%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="a" %>  <a:forEach var="i" begin="1" end="10">  <a:if test="${i%2==1}">  Odd Number is:<a:out value="${i}"/><br>  </a:if>  </a:forEach> |
| **Output** |  |
|  |  |
|  |  |
| **Q-4** | **take data for 20 elements -number,full name,etc....==token** |
| **Code** | <%@ taglib uri ="http://java.sun.com/jsp/jstl/core" prefix="c" %>  <c:forTokens items= "123,456,hello,kamo,jara,para,jigo,lenovo,856,963,like,654,tym,632,wes,where,856,rfg" delims=" , " var= "exam">  <c:out value = "${exam }"/> </p>  </c:forTokens> |
| **Output** |  |
|  |  |
| **Q-5** | **program of prime number** |
| **Code** | <%@  taglib  uri="http://java.sun.com/jsp/jstl/core"  prefix="c"  %>  <c:out value="${'Prime Number Check'}"/><br>  <c:set var="flag" value="${'0'}"/>  <c:set var="num" value="${'6'}"/>  <c:set var="m" value="${num/2}"/>  <c:if test="${num == 0 || num == 1}">  <p><c:out value="${num}"/> is a prime number</p>  </c:if>  <c:forEach var="i" begin="2" end="${m}">  <c:if test="${num%i==0}">  <c:set var="flag" value="${'1'}"/>  </c:if>  </c:forEach>  <c:if test="${flag == 0}">  <p><c:out value="${num}"/> is a prime number</p>  </c:if>  <c:if test="${flag == 1}">  <p><c:out value="${num}"/> is not a prime number</p>  </c:if> |
| **Output** |  |
|  |  |
|  |  |
| **Q-6** | **grade sheet of percentage** |
| **Code** | <%@ taglib uri ="http://java.sun.com/jsp/jstl/core" prefix="o" %>  <o:set var="grade" value ="${100}"/>  <p>Your pr id : <o:out value="${grade}"/></p>  <o:choose>  <o:when test="${grade > 90 }">  Grade A++  </o:when>  <o:when test="${grade > 60 }">  Grade B++  </o:when>  <o:when test="${grade > 40 }">  Grade C++  </o:when>  <o:otherwise>  Fail....Sorry !  </o:otherwise>  </o:choose> |
| **Output** |  |
|  |  |
|  |  |
| **Q-7** | **check whether the inputted data, perform +-\*/-catch** |
| **Code** | <%@  taglib  uri="http://java.sun.com/jsp/jstl/core"  prefix="c"  %>  <c:out value="${'Calculator'}"/><br><br>  <c:set var="a" value="${20}"/>  <c:set var="b" value="${10}"/>  Value of A : <c:out value="${a}"/><br>  Value of B : <c:out value="${b}"/><br><br>  Addition : <c:out value="${a + b}"/><br>  Subtraction : <c:out value="${a - b}"/><br>  Multiplication : <c:out value="${a \* b}"/><br>  Division : <c:out value="${a/b}"/><br>  Modulo : <c:out value="${a%b}"/><br> |
| **Output** |  |
|  |  |
|  |  |
| **Q-8** | **use concept of foreach -print pyramid** |
| **Code** | <%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="a" %>  <a:forEach var="i" begin="1" end="5">  <a:forEach var="j" begin="1" end="5">  <a:if test="${j<=i}">  <a:out value="\*"/>  </a:if>  </a:forEach>  <br>  </a:forEach> |
| **Output** |  |
|  |  |
|  |  |
| **Q-9** | **give an eg of set method** |
| **Code** | <%@ taglib uri = "http://java.sun.com/jsp/jstl/core" prefix = "c" %>  <c:set var = "salary" scope = "session" value = "${2000\*2}"/>  <c:out value = "${salary}"/> |
| **Output** |  |
|  |  |
|  |  |
| **Q-10** | **import method eg** |
| **Code** | <%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>  <c:import var="data" url="http://www.google.com"/>  <c:out value="${data}"/> |
| **Output** |  |
|  |  |
|  |  |
| **Q-11** | **catch** |
| **Code** | <%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>  <c:catch var ="catchException">  <% int x = 5/0;%>  </c:catch>  <c:if test = "${catchException != null}">  <p>The exception is : ${catchException} <br />  There is an exception: ${catchException.message}</p>  </c:if> |
| **Output** |  |
| **Q-12** | **choose** |
| **Code** | <%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>  <c:set var="salary" scope="session" value="${2000\*2}"/>  <p>Your salary is : <c:out value="${salary}"/></p>  <c:choose>  <c:when test="${salary <= 0}">  Salary is very low to survive.  </c:when>  <c:when test="${salary > 1000}">  Salary is very good.  </c:when>  <c:otherwise>  No comment  </c:otherwise>  </c:choose> |
| **Output** |  |
|  |  |
|  |  |
| **Q-13** | **foreach** |
| **Code** | <%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>  <c:forEach var="i" begin="1" end="5">  Item <c:out value="${i}"/><p>  </c:forEach> |
| **Output** |  |
|  |  |
|  |  |
| **Q-14** | **if** |
| **Code** | <%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>  <c:set var="salary" scope="session" value="${2000\*2}"/>  <c:if test="${salary > 2000}">  <p>My salary is: <c:out value="${salary}"/><p>  </c:if> |
| **Output** |  |
|  |  |
|  |  |
| **Q-15** | **import** |
| **Code** | <%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>  <c:import var="data" url="http://www.google.com"/>  <c:out value="${data}"/> |
| **Output** |  |
|  |  |
|  |  |
| **Q-16** | **out** |
| **Code** | <%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>  <c:out value="abc"/> |
| **Output** |  |
|  |  |
|  |  |
| **Q-17** | **redirect** |
| **Code** | <%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>  <c:redirect url="http://www.google.com"/> |
| **Output** |  |
|  |  |
|  |  |
| **Q-18** | **remove** |
| **Code** | <%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>  <c:set var="salary" scope="session" value="${2000\*2}"/>  <p>Before Remove Value: <c:out value="${salary}"/></p>  <c:remove var="salary"/>  <p>After Remove Value: <c:out value="${salary}"/></p> |
| **Output** |  |
|  |  |
|  |  |
| **Q-19** | **set** |
| **Code** | <%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>  <html>  <head>  <title>Tag Example</title>  </head>  <body>  <c:set var="salary" scope="session" value="${2000\*2}"/>  <c:out value="${salary}"/>  </body>  </html> |
| **Output** |  |
|  |  |
|  |  |
| **Q-20** | **token** |
| **Code** | <%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>  <c:forTokens items="Lal,Bal,Pal" delims="," var="name">  <c:out value="${name}"/><p>  </c:forTokens> |
| **Output** |  |
|  |  |
|  |  |
| **Q-21** | **url** |
| **Code** | <%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>  <a href="<c:url value="out.jsp"/>">TEST</a> |
| **Output** |  |
|  |  |
|  |  |
| **Q-22** | **write a program using c: if tag check whether age is > 60 answer senior citizen otherwise not senior citizen** |
| **Code** | <%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="b" %>  <b:set var="age" scope="session" value="${70}"/>  <b:if test="${age > 60}">  <p>senior citizen</p>  </b:if>  <b:if test="${age < 60}">  <p>not senior citizen</p>  </b:if> |
| **Output** |  |
|  |  |
|  |  |
| **Q-23** | **Using choose cmd**  **If age < 18 child**  **> 40-60 old**  **> 60 senior citizen**  **Otherwise No comment** |
| **Code** | <%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>  <!DOCTYPE html>  <html>  <head>  <meta charset="ISO-8859-1">  <title>Age</title>  </head>  <body>  <c:set scope="session" var="a" value="${61}" />  <c:choose>  <c:when test="${a le 18 }">  <c:out value="${'You are a child'}" />  </c:when>  <c:when test="${a ge 40 && a le 60 }">  <c:out value="${'You are a old'}" />  </c:when>  <c:when test="${a ge 61 }">  <c:out value="${'You are a senior'}" />  </c:when>  <c:otherwise>  <c:out value="${'No comment' }" />  </c:otherwise>  </c:choose>  </body>  </html> |
| **Output** |  |