



NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA, HARYANA-136119 (INDIA)
(INSTITUTION OF NATIONAL IMPORTANCE)

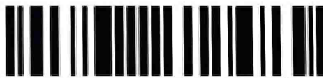
STUDENT IDENTITY CARD



ROLL NO. 11913001
NAME HRITIK KUMAR
FATHER'S NAME MEGHNATH PRASAD
PROGRAMME B. TECH.
BRANCH INFORMATION TECHNOLOGY

Hritik Kumar.

Student's Signature



Ranjay Sahayardi
Deputy Registrar (Academic)

BLOOD GROUP
ADDRESS

O-
MANPUR, BAIJNATH SAHAY LANE,
PO+PS- BUNIYADGANJ,
GAYA, BIHAR-823003

DOB

21-03-2002

राष्ट्रीय प्रौद्योगिकी संस्थान, कुरुक्षेत्र
NATIONAL INSTITUTE OF TECHNOLOGY, KURUKSHETRA
(INSTITUTION OF NATIONAL IMPORTANCE)

STUDENT (M)

9204251707

PARENTS (M)

9234371258 8434408303

EMAIL ID

hritik.kmr.111@gmail.com

VALID UPTO

JUNE-2023

INSTITUTE CONTACT NO(S) : 01744-233227, 233208

Roll no. - 11913001

Branch - IT-1

Course - WT

Total no. of pages used - 9

Sign of student - Hritik Kumar

Semester - Vth (END SEM)

Course Code - ITPC33

Ans 1.) (a) NO, XML itself does not replace HTML: instead, it provides an alternative which allows you to define your own set of markup elements. HTML is expected to remain in common use for some time to come, and a Document Type Definition for HTML is available in XML syntax as well as in original form.

Ans. 1.) (b) In javascript, we can use the following two ways to get hidden field value in a form:

- (i) document.getElementById('hidden field id').value.
- (ii) document.formName.elements['hidden field name'].value.

Ans. 1.) (c) Properties of XMLHttpRequest

(i) onReadyStateChange: It is called whenever readyState attribute changes. It must not be used with synchronous requests.

(ii) readyState: represents the state of the request. It ranges from 0 to 4.

(iii) responseText: returns response as text.

(iv) responseXML: returns response as XML.

Ans. 1.) (d) The isNaN() function determines whether a value is an illegal number (Not-a-Number).

This fn returns true if the value equates to NaN, otherwise it returns false.

Ans. 1.) (e) Four built-in functions in PHP —

- (i) `phpinfo()`
- (ii) `print()`
- (iii) `date()`
- (iv) `time()`

Ans. 1.) (f) Search engines don't see the data that isn't in the first tab, because they can't access the Ajax. Ajax is not accessible, so the content in the other tabs would not be visible to anyone using a screen reader, or even older browsers that don't have good javascript support.

Ans. 1.) (g) Decoding JSON data is as simple as encoding it. You can use the PHP `json_decode()` function to convert the JSON encoded string into appropriate PHP data type.

Ans. 2.) (b) `<?XML version="1.0" encoding="utf-8">`

`<!DOCTYPE AddressBook [`

`<!ELEMENT contact (Name, Address)>`

`<!ELEMENT Name (#PCDATA)>`

`<!ELEMENT Address (Street, State, phone)>`

`<!ELEMENT Street (#PCDATA)>`

`<!ELEMENT State (#PCDATA)>`

`<!ELEMENT phone (#PCDATA)>`

`]>`

~~GA~~

```

<AddressBook>
  <Contact>
    <Name> Hrithik Kumar </Name>
    <Address>
      <Street> Maupur </Street>
      <State> Bihar </State>
      <Phone> 9204920492 </Phone>
    </Address>
  </Contact>
</AddressBook>

```

Ans. 3.) (a) login.jsp

```

<html>
<head>
</head>
<body>
  <%
    String logTime = request.getParameter("logTime");
    if (logTime != null) {
      session.setAttribute("loggedIn", logTime);
    }
    String pname = request.getParameter("pname");
    if (pname != null) {
      session.setAttribute("pname", pname);
    }
    String duration = request.getParameter("duration");
    if (duration != null) {
      session.setAttribute("duration", duration);
    }
  %>

  <form name="form1" method="POST">
    Please enter name :
    <input type="text" name="pname"/> <br> </br>
    <input type="Submit" value="Submit"
      onclick="showTime()" />
    <input type="hidden" name="pname" value="" />
  </form>

```

```

<input type="hidden" name="duration" value="" />
<input type="hidden" name="logtime" value="" />
</form>

```

```

<script language="javascript">
function showTime()

```

```

{ var name = document.form1.name.value;
  document.write("Hello " + name);
  document.form1.pname.value = name;
  var time = new Date();
  var loggedInTime = time.getHours() + ":" + time +
    time.getMinutes() + ":" +
    time.getSeconds();
  document.form1.logtime.value = loggedInTime;
  var buttonnode = document.createElement("input");
  buttonnode.setAttribute("type", "button");
  buttonnode.setAttribute("name", "logout");
  buttonnode.setAttribute("value", "log-out");
  buttonnode.attachEvent("OnClick", showLoggedInDuration());
}

```

```

function showLoggedInDuration()

```

```

{ var time = new Date();
  var loggedOutTime = time.getHours() + ":" +
    time.getMinutes() + ":" +
    time.getSeconds();
  document.write("<br>" + "The logged in Time : " +
    loggedOutTime);
  var loggedInTime = document.form1.logtime.value;
  var duration = loggedOutTime - loggedInTime;
  document.form1.duration.value = duration;
  document.location.href = "x.jsp";
}

```

```

</script>

```

```

</body>

```

```

</html>

```

Result.jsp

```

<html>
<body>
<%
    String name = session.getAttribute("pname");
    String duration = request.getAttribute("duration");
%>
<header>
<h2> Thank You "<%=name%>" </h2>
<br>
<h2> The total session duration is : "<%=duration%>" </h2>
</header>
</body>
</html>

```

Ans. 2.) (a) perl.pl

```

#! "C:\xampp\perl\bin\perl.exe"
use CRT ":standard";
print header;
$n = param('n');
$ans = 0;
$fact = 1;
for ($i = 1; $i <= $n ; $i++)
{
    $fact = $fact * $i;
    $ans = $ans + ($i / $fact);
}
print $ans;

```

program.html

```

<html>
<body>
<form action = "http://localhost/cgi-bin/perl.pl">
<label> enter value of n </label>
<input type = "text" class = "n" name = "n"/>

```

```

<input type = "submit" />
</form>
</body>
</html>

```

Ans.) 4.) (a) index.html

```

<html>
<head>
  <title> login </title>
</head>
<body>
  <form action = "check" method = "post">
    <input type = "text" name = "user" />
    <input type = "password" name = "password" />
    <input type = "submit" />
  </form>
</body>
</html>

```

⇒ check.java

```

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

public class check extends HttpServlet {
    protected void doGet (HttpServletRequest request,
                          HttpServletResponse response)
    {
        response.setContentType ("text/html");
        PrintWriter out = response.getWriter();

        String user = request.getParameter ("user");
        String password = request.getParameter ("password");
    }
}

```



```

cookie ck[] = request.getCookies();
String savedUser = ck[0].getValue();
String savedpassword = ck[1].getValue();
if (user.equals(savedUser) && password.equals(savedpassword))
{ out.print("<h1> welcome user </h1>");
}
else
{ out.print("<h1> you are not an authenticated user </h1>");
}
}

```

Ans 4) (b) Emp (eid: integer, ename: string, age: integer, salary: real)
 works (eid: integer, did: integer, pet-time: integer)
 Dept (did: integer, budget: real, managerid: integer)

Query 1

```
<?php>
```

```
$server = "localhost";
```

```
$username = "root";
```

```
$password = " ";
```

```
$dbname = "q4part1";
```

```
$conn = new mysqli($server, $username, $password, $dbname);
```

```
if ($conn->connect_error) {
    die("connection failed");
}
```

```
$sql = "SELECT workid, wocount (eid) FROM works w0
GROUP BY woid HAVING 20 < (SELECT SUM
(welpet-time) FROM works w1 where w1did=w0did)";
$result = $conn->query($sql);
```

```
?>
```



```

<html>
<head> <title 4b(1) </title> </head>
<body>
  <table>
    <tr>
      <th> Dept id </th>
      <th> <No. of employees </th>
    </tr>
    <?php
      if ($result->num_rows > 0) {
        while ($row = $result->fetch_assoc()) {
          echo " <tr> ";
          echo "<td> $row[wo.did] </td> ";
          echo "<td> $row[wo. count (eid) </td> ";
          echo "</tr> ";
        }
      }
    </table>
  </body>
</html>

```

Query 2

```

$sql = "select eo.name from emp eo where
eo.salary > ALL (select do.budget from
Dept do, works wo where eo.did =
wo.id AND do.did = wo.did)";

$result = $conn->query($sql);

```

query 3

```
$sql = 'Select distinct D0.managerid from
dept D0 where 1000000 < ALL (select
D1.budget from Dept. D1 where D0
managerid = D1.managerid)';
```

```
$result = $conn → query ($sql);
```

Ans. 3) (b) Session is most frequently used implicit object in JSP. The main usage of it is to gain access to all the user's data till the user session is active.

2) Methods in session Implicit object.

- (i) setAttribute (string, object)
- (ii) getAttribute (string name)
- (iii) removeAttribute (string name)
- (iv) getAttributeNames
- (v) getCreationTime
- (vi) getID()
- (vii) isNew()

2) Server Implicit object

⇒ index.html

```
<html>
<head>
head <title> welcome page! </title>
</head>
<body>
<form action = "session.jsp">
<input type = "text" name = "inputname">
```