

Department Of
Information Science &
Engineering

2017

WEB PROGRAMMING LAB MANUAL- 10CSL78



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web
programming



Channabasaveshwara Institute of Technology

(An ISO 9001:2008 Certified Institution)

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Department of Information Science and Engineering

WEB PROGRAMMING LABORATORY

ACADEMIC YEAR 2017-18

10CSL78

B.E – VII Semester

Lab Manual

Name: _____

USN: _____

Batch: _____ Section: _____

VISION

- ✚ To create centers of excellence in the education and to serve the society by enhancing the quality of life through value based professional leadership

MISSION

- ✚ To provide high quality technical and professionally relevant education in a diverse environment.
- ✚ To prepare next generation of skilled professionals to successfully compete in the diverse global market.
- ✚ To offer wide variety of off-campus education and training programs to individuals and groups.
- ✚ To stimulate collaborative efforts with industry, universities, government and professional societies.

QUALITY POLICY

- ✚ Our Organization delights customers (Students, Parents and Society) by providing value added quality education to meet the National and International requirements. We also provide necessary steps to train the students for placement and continue to improve our methods of education to the students through effective Quality Management System, Quality Policy and Quality Objectives.

SYLLABUS

WEB PROGRAMMING LABORATORY

Sub Code: 10CSL78

Hrs/ Week: 03

Total Hrs. 42

IA Marks: 25

Exam Hours: 03

Exam Marks: 50

1. Develop and demonstrate a XHTML file that includes Javascript script for the following problems:

a) Input: A number n obtained using prompt

Output: The first n Fibonacci numbers

b) Input: A number n obtained using prompt

Output: A table of numbers from 1 to n and their squares using alert

2. a) Develop and demonstrate, using Javascript script, a XHTML document that collects the USN (the valid format is: A digit from 1 to 4 followed by two upper-case characters followed by two digits followed by two upper-case characters followed by three digits;no embedded spaces allowed) of the user. Event handler must be included for the form element that collects this information to validate the input. Messages in the alert windows must be produced when errors are detected.

b) Modify the above program to get the current semester also (restricted to be a number from 1 to 8)

3. a) Develop and demonstrate, using Javascript script, a XHTML document that contains three short paragraphs of text, stacked on top of each other, with only enough of each showing so that the mouse cursor can be placed over some part of them. When the cursor is placed over the exposed part of any paragraph, it should rise to the top to become completely visible.

b) Modify the above document so that when a paragraph is moved from the top stacking Position, it returns to its original position rather than to the bottom.

4. a) Design an XML document to store information about a student in an engineering college affiliated to VTU. The information must include USN, Name, Name of the College, Branch, Year of Joining, and e-mail id. Make up sample data for 3 students. Create a CSS style sheet and use it to display the document.

- b) Create an XSLT style sheet for one student element of the above document and use it to create a display of that element.
5. a) Write a Perl program to display various Server Information like Server Name, Server Software, Server protocol, CGI Revision etc.
- b) Write a Perl program to accept UNIX command from a HTML form and to display the output of the command executed.
6. a) Write a Perl program to accept the User Name and display a greeting message randomly chosen from a list of 4 greeting messages.
- b) Write a Perl program to keep track of the number of visitors visiting the web page and to display this count of visitors, with proper headings.
7. Write a Perl program to display a digital clock which displays the current time of the server.
8. Write a Perl program to insert name and age information entered by the user into a table created using MySQL and to display the current contents of this table.
9. Write a PHP program to store current date-time in a COOKIE and display the 'Last visited on' date- time on the web page upon reopening of the same page.
10. Write a PHP program to store page views count in SESSION, to increment the count on each refresh, and to show the count on web page.
11. Create a XHTML form with Name, Address Line 1, Address Line 2, and E-mail text fields. On submitting, store the values in MySQL table. Retrieve and display the data based on Name.
12. Using PHP and MySQL, develop a program to accept book information viz. Accession number, title, authors, edition and publisher from a web page and store the information in a database and to search for a book with the title specified by the user and to display the search results with proper headings.

NOTE: Student is required to solve one problem in the examination. The questions are allotted based on lots.

CONTENTS

Sl.No.	Content	Page No.
1	<p>Develop and demonstrate a XHTML file that includes Javascript script for the following problems:</p> <ul style="list-style-type: none">a) Input: A number n obtained using prompt Output: The first n Fibonacci numbersb) Input: A number n obtained using prompt Output: A table of numbers from 1 to n and their squares using alert	
2	<p>Develop and demonstrate, using Javascript script, a XHTML document that collects the USN (the valid format is: A digit from 1 to 4 followed by two upper-case characters followed by two digits followed by two upper-case characters followed by three digits;no embedded spaces allowed) of the user. Event handler must be included for the form element that collects this information to validate the input. Messages in the alert windows must be produced when errors are detected.</p> <p>b) Modify the above program to get the current semester also (restricted to be a number from 1 to 8)</p>	
3	<p>Develop and demonstrate, using Javascript script, a XHTML document that contains three short paragraphs of text, stacked on top of each other, with only enough of each showing so that the mouse cursor can be placed over some part of them. When the cursor is placed over the exposed part of any paragraph, it should rise to the top to become completely visible.</p> <p>b) Modify the above document so that when a paragraph is moved from the top stacking position, it returns to its original position rather than to the bottom.</p>	
4	<p>Design an XML document to store information about a student in an engineering college affiliated to VTU. The information must include USN, Name, Name of the College, Branch, Year of Joining, and e-mail id.Make up sample data for 3 students. Create a CSS style sheet and use it to display the document.</p> <p>b) Create an XSLT style sheet for one student element of the above document and use it to create a display of that element.</p>	
5	<p>Write a Perl program to display various Server Information like Server Name, Server Software, Server protocol, CGI Revision etc.</p> <p>b) Write a Perl program to accept UNIX command from a HTML form and to display the output of the command executed.</p>	
6	<p>Write a Perl program to accept the User Name and display a greeting message randomly chosen from a list of 4 greeting messages.</p>	

	b) Write a Perl program to keep track of the number of visitors visiting the web page and to display this count of visitors, with proper headings.	
7	Write a Perl program to display a digital clock which displays the current time of the server.	
8	Write a Perl program to insert name and age information entered by the user into a table created using MySQL and to display the current contents of this table.	
9	Write a PHP program to store current date-time in a COOKIE and display the 'Last visited on' date- time on the web page upon reopening of the same page.	
10	Write a PHP program to store page views count in SESSION, to increment the count on each refresh, and to show the count on web page.	
11	Create a XHTML form with Name, Address Line 1, Address Line 2, and E-mail text fields. On submitting, store the values in MySQL table. Retrieve and display the data based on Name.	
12	Using PHP and MySQL, develop a program to accept book information viz. Accession number, title, authors, edition and publisher from a web page and store the information in a database and to search for a book with the title specified by the user and to display the search results with proper headings.	

Program 01:

Develop and demonstrate a XHTML file that includes Javascript script for the following problems:

a) Input: A number n obtained using prompt

Output: The first n Fibonacci numbers

b) Input: A number n obtained using prompt

Output: A table of numbers from 1 to n and their squares using alert

A)

```
<?xml version="1.0" encoding="utf-8"?>
<html xmlns="http://www.w3.org/1999/xhtml/">

<head><title>Fibonacci Series</title>
</head>

<body bgcolor="yellow">

<h3 style="text-align:center;color:red"> Program to generate first n
fibonacci numbers </h3>

<script type="text/javascript">
var limit = prompt("Enter the number");
var f1=0;
var f2=1;

document.write("<h3>The limit entered is: </h3>",limit,"<br/>");
document.write("<h3>The fibonacci series is: </h3> <br/>");

if(limit == 1)
{
    document.write("", f1, "<br/>");
}
if(limit == 2)
{
    document.write("", f1, "<br/>");
    document.write("", f2, "<br/>");
}
```



```
}  
if(limit > 2)  
{  
    document.write("", f1, "<br/>");  
    document.write("", f2, "<br/>");  
    for(i=2;i<limit;i++)  
    {  
        f3 = f2+f1;  
        document.write("", f3, "<br/>");  
        f1=f2;  
        f2=f3;  
    }  
}  
  
}  
</script>  
</body>  
</html>
```

B)

```
<?xml version ="1.0" encoding = "utf-8?">  
<html xmlns="http://www.w3.org/1999/xhtml">  
<head>  
<title> square.html </title>  
</head>  
<body style="background-color:yellow">  
<h3 style="text-align:center;color:red"> Program to generate a table  
of numbers from 1 to n and their squares using alert</h3>  
<script type="text/javascript" >  
var n= prompt("Enter the limit 'n' to generate the table of
```

```
numbers from 1 to n:", "");  
var msg = "";  
var res = "0";  
for (var x = 1; x <= n; x++)  
{  
  res = x * x;  
  msg = msg + " " + x + " * " + x + " = " + res + "\n";  
}  
alert(msg);  
</script>  
</body>  
</html>
```

Program 02:

. Develop and demonstrate, using Javascript script, a XHTML document that collects the USN (the valid format is: A digit from 1 to 4 followed by two upper-case characters followed by two digits followed by two upper-case characters followed by three digits;no embedded spaces allowed) of the user. Event handler must be included for the form element that collects this information to validate the input. Messages in the alert windows must be produced when errors are detected.

b) Modify the above program to get the current semester also (restricted to be a number from 1 to 8)

A)

```
<?xml version="1.0" encoding="utf-8"?>
<html xmlns="http://www.w3.org/1999/xhtml/">
<head><title>USN.html</title>
<script type="text/javascript">
function checkusn()
{
alert("CIT");
var str=document.getElementById("usn");
alert(str);
var result=str.value.search(/^[1-4]{1}[A-Z]{2}\d{2}[A-Z]{2}\d{3}$/);
alert(result);
if(result != 0)
{
    alert("Entered usn("+str.value+") is not in correct form. The correct
pattern is :ICG09CS100");
}
else
{
    alert("Entered usn("+str.value+") is in the correct form.");
}
}
</script>
```

```

</head>

<body style="background-color:yellow">
<h3 style="text-align:center;color:red"> Program includes XHTML document to
collect the Student-Information</h3>

<h3 style="color:purple">Student Information </h3>
<form name="my form">
<p style="color:purple"> Enter your USN:</p>
<input type="text" id="usn" size=15/>
<br/>
<br/>
<input type="button" onclick="checkusn()" value="Submit"/>
<input type = "reset" value= "Reset" />
<br/>
</form>
</body>
</html>

```

B)

```

<?xml version="1.0" encoding="utf-8"?>
<html xmlns="http://www.w3.org/1999/xhtml/">

<head><title>USN.html</title>
<script type="text/javascript">
function validate()
{

var str=document.getElementById("usn");
var str1 = document.getElementById("sem");

```

```
var result=str.value.search(/^[1-4]{1}[A-Z]{2}\d{2}[A-Z]{2}\d{3}$/);
var semres = str1.value.search(/^[1-8]{1}$/);

if(result>=0 && semres>=0)
{
    alert("Entered usn("+str.value+") is in correct form and entered
sem("+str1.value+") is in correct form.");
}
else if(result<0 && semres>=0)
{
    alert("Entered usn("+str.value+") is not in correct form The correct form
is:1CG09CS100.");
}
else if(result>=0 && semres<0)
{
    alert("Entered sem("+str1.value+") is not in correct form The number is
between 1 to 8.");
}
else
{
    alert("Entered usn("+str.value+") and entered sem ("+str1.value+)is not in
the correct form.");
}
}
}
</script>
</head>

<body style="background-color:yellow">
<h3 style="text-align:center;color:red"> Program includes XHTML document to
```

collect the Student-Information</h3>

```
<h3 style="color:purple">Student Information </h3>
```

```
<form name="my form">
```

```
<p style="color:purple"> Enter your USN:</p>
```

```
<input type="text" id="usn" size=15/>
```

```
<br/>
```

```
<br/>
```

```
<p style="color:purple"> Enter your SEM:</p>
```

```
<input type="text" id="sem" size=15/>
```

```
<br/>
```

```
<br/>
```

```
<input type="button" onclick="validate()" value="Validate"/>
```

```
<input type = "reset" value= "Reset" />
```

```
<br/>
```

```
</form>
```

```
</body>
```

```
</html>
```

Program 03:

Develop and demonstrate, using Javascript script, a XHTML document that contains three short paragraphs of text, stacked on top of each other, with only enough of each showing so that the mouse cursor can be placed over some part of them. When the cursor is placed over the exposed part of any paragraph, it should rise to the top to become completely visible.

b) Modify the above document so that when a paragraph is moved from the top stacking position, it returns to its original position rather than to the bottom.

A)

```
<?xml version = "1.0" encoding = "utf-8"?>

<html xmlns="http://www.w3.org/1999/xhtml">
<head>

<title>The Stacking order</title>
<style type="text/css">
.layer1Style
{
border: solid thick black;
padding: 1em;
width:300px;
background-color:green;
position:absolute;
top:100px;
left:200px;
z-index:0;
}
.layer2Style
{
border: solid thick red;
padding: 1em;
```

```
width:300px;
background-color:BLUE;
position:absolute;
top:120px;
left:220px;
z-index:0;
}
.layer3Style
{
border: solid thick green;
padding: 1em;
width:300px;
background-color:purple;
position:absolute;
top:140px;
left:240px;
z-index:0;
}
</style>
```

```
<script type="text/javascript">
var topLayer="layer3";
function mover(toTop)
{
var oldTop=document.getElementById(topLayer).style;
var newTop=document.getElementById(toTop).style;
oldTop.zIndex="0";
newTop.zIndex="10";
```



```
topLayer=document.getElementById(toTop).id;
alert(topLayer);
}
</script>

</head>

<body bgcolor = "red">
<h2 style="text-align:center;color:yellow"> Program includes XHTML
document to show the Stacking of Paragraphs</h2>

<div style="z-index: 10;" class="layer1Style" id="layer1"
onmouseover="mover('layer1')">
The lives of most inhabitants of Industrialized Countries, has
well as some unindustrialized countries, have been changed forever by the
advent of WWW.
</div>

<div style="z-index: 2;" class="layer2Style" id="layer2"
onmouseover="mover('layer2')">
The www may seem like magic , untill you undrestand how it
works.The Web is accessed through a browser.
</div>

<div style="z-index: 0;" class="layer3Style" id="layer3"
onmouseover="mover('layer3')">
Windows XP provides many ways for you to communicate with friends,
co-workers, and I with the rest of the world.
</div>
</body> </html>
```

B)

```
<?xml version = "1.0" encoding = "utf-8"?>

<html xmlns="http://www.w3.org/1999/xhtml">
<head>

<title>The Stacking order 5b</title>
<style type="text/css">
.layer1Style{
border: solid thick black;
padding: 1em;
width:300px;
background-color:green;
position:absolute;
top:100px;
left:400px;
z-index:1;
}
.layer2Style{
border: solid thick blue;
padding: 1em;
width:300px;
background-color:red;
position:absolute;
top:120px;
left:420px;
z-index:2;
}
.layer3Style{
border: solid thick brown;
```

```
padding: 1em;
width:300px;
background-color:orange;
position:absolute;
top:140px;
left:440px;
z-index:3;
}
</style>
```

```
<script type="text/javascript">
var topLayer="layer3";
var origPos;
function mover(toTop,pos)
{
var newTop=document.getElementById(toTop).style;
newTop.zIndex="10";
topLayer=document.getElementById(toTop).id;
origPos=pos;

}
function moveBack()
{
document.getElementById(topLayer).style.zIndex=origPos;
}

</script>
```

```
</head>
```

```
<body style="background-color:yellow">
<h1 style="text-align:center;color:red"> The Stacking of paragraphs when
moved from the top stacking position, it returns to its original
position.</h1>

<div style="z-index: 1;" class="layer1Style" id="layer1"
onmouseover="mover('layer1','1')" onmouseout="moveBack()">
The lives of most inhabitants of Industrailzed Countries, has well as some
unindustrialized countries, have been changed forever by the advent of WWW.
</div>

<div style="z-index: 2;" class="layer2Style" id="layer2"
onmouseover="mover('layer2','2')" onmouseout="moveBack()">
The www may seem like magic , untill you undrestand how it works.The Web is
accessed through a browser.
</div>

<div style="z-index: 3;" class="layer3Style" id="layer3"
onmouseover="mover('layer3','3')" onmouseout="moveBack()">
Windows XP provides many ways for you to communicate with friends, coworkers,
and Iwith the rest of the world.
</div>
</body>
</html>
```

Program 04:

Design an XML document to store information about a student in an engineering college affiliated to VTU. The information must include USN, Name, Name of the College, Branch, Year of Joining, and e-mail id. Make up sample data for 3 students. Create a CSS style sheet and use it to display the document.

b) Create an XSLT style sheet for one student element of the above document and use it to create a display of that element.

A)

```
<?xml version = "1.0" encoding = "utf-8"?>

    <!DOCTYPE student[
    <!ELEMENT student_information (ad+)>

    <!ELEMENT ad (usn,name,collegename,branch,year,email)>
    <!ELEMENT usn (#PCDATA)>
    <!ELEMENT name (#PCDATA)>
    <!ELEMENT collegename (#PCDATA)>
    <!ELEMENT branch (#PCDATA)>
    <!ELEMENT year (#PCDATA)>
    <!ELEMENT email (#PCDATA)>
    <!ELEMENT label (#PCDATA|email|year|branch|college|name|usn) *>
    <!ELEMENT h3 (#PCDATA)>
    <!ELEMENT h2 (#PCDATA)>

    ]>

    <?xml-stylesheet type="text/css" href="stu.css"?>
    <student_information>
    <h3>Student-Information</h3>
        <h2> student 1</h2>
```

```
<ad><label> usn:<usn> 4bd06499 </usn></label></ad>

<ad><label> Name:<name> AAA </name></label></ad>

<ad><label> College name:<College> CIT,Gubbi
</College></label></ad>

<ad><label> Branch:<branch> CSE </branch></label></ad>

<ad><label> Year of joining:<year> 2006 </year></label></ad>

<ad><label> Email-ID:<email> aaa@gmail.com </email></label></ad>

<h2> student 2</h2>

<ad><label> usn:<usn> 4bd06490 </usn></label></ad>

<ad><label> Name:<name> BBB</name></label></ad>

<ad><label> College name:<College> CIT,Gubbi
</College></label></ad>

<ad><label> Branch:<branch> CSE </branch></label></ad>

<ad><label> Year of joining:<year> 2006 </year></label></ad>

<ad><label> Email-ID:<email> bbb@gmail.com </email></label></ad>

<h2> student 3</h2>

<ad><label> usn:<usn> 4bd06491 </usn></label></ad>

<ad><label> Name:<name> CCC </name></label></ad>

<ad><label> College name:<College> CIT,Gubbi
</College></label></ad>

<ad><label> Branch:<branch> CSE </branch></label></ad>

<ad><label> Year of joining:<year> 2006 </year></label></ad>

<ad><label> Email-ID:<email> ccc@gmail.com </email></label></ad>

</student_information>
```

Stu.css

```
ad{display:block; margin-top:15px; color:blue; font-size:13pt; }
  usn {color:red; font-size:12pt; margin-left:15px; }
```

```
name {color:red; font-size:12pt; margin-left:15px; }
college {color:red; font-size:12pt; margin-left:15px; }
branch {color:red; font-size:12pt; margin-left:15px; }
year {color:red; font-size:12pt; margin-left:15px; }
email {color:red; font-size:12pt; margin-left:15px; }
h3{color:red; font-size:16pt; }
h2 {display:block; color:red; font-size:16pt; }
```

B)

```
<?xml version ="1.0" encoding="utf-8"?>

<!DOCTYPE student[
<!ELEMENT student_information (ad+)>

<!ELEMENT ad (usn,name,collegename,branch,year,email)>
<!ELEMENT usn (#PCDATA)>
<!ELEMENT name (#PCDATA)>
<!ELEMENT collegename (#PCDATA)>
<!ELEMENT branch (#PCDATA)>
<!ELEMENT year (#PCDATA)>
<!ELEMENT email (#PCDATA)>

]>

<?xml-stylesheet type = "text/xsl" href = "xslstudent.xsl" ?>
<student>
    <usn> 4bd06cs099 </usn>
    <name> Kumar </name>
    <college> CIT </college>
    <branch> CSE </branch>
```

```
<year> 2006 </year>
<email> abc@gmail.com</email>
</student>
```

Xslstudent.xsl

```
<?xml version = "1.0"?>

<xsl:stylesheet version = "1.0"
    xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
    xmlns="http://www.w3.org/1999/xhtml">
    <xsl:template match = "/">
        <h2> Student information </h2>
        <span style = "font-style: italic;color:red;margin-
right::5pt;"> USN: </span>
        <xsl:value-of select = "student/usn" /> <br />
        <span style = "font-style: italic;color:red;margin-
right::5pt;">Name: </span>
        <xsl:value-of select = "student/name" /> <br />
        <span style = "font-style: italic;color:red;margin-
right::5pt;"> Branch: </span>
        <xsl:value-of select = "student/branch" /> <br />
        <span style = "font-style: italic;color:red;margin-
right::5pt;"> College Name: </span>
        <xsl:value-of select = "student/college" /> <br />
        <span style = "font-style: italic;color:red;margin-
right::5pt;"> Year of joining: </span>
        <xsl:value-of select = "student/year" /> <br />
        <span style = "font-style: italic;color:red;margin-
right::5pt;"> Email-ID: </span>
        <xsl:value-of select = "student/email" /> <br />

    </xsl:template>
</xsl:stylesheet>
```


Program 05:

Write a Perl program to display various Server Information like Server Name, Server Software, Server protocol, CGI Revision etc.

b) Write a Perl program to accept UNIX command from a HTML form and to display the output of the command executed

A)

```
#!/usr/bin/perl

print "content-type:text/html \n\n",
      "<html>",
      "<h1>Welcome to CIT</h1>",
      "<h2>Welocome to PWEB LAB</h2>",
      "<body>",
      "Server Name: $ENV{'SERVER_NAME'}<br>",
      "Server Port: $ENV{'SERVER_PORT'}<br>",
      "Server Software: $ENV{'SERVER_SOFTWARE'}<br>",
      "Server Protocol: $ENV{'SERVER_PROTOCOL'}<br>",
      "CGI VERSION: $ENV{'GATEWAY_INTERFACE'}",
      "</html>";
```

B)

```
#!/usr/bin/perl
use CGI ':standard';
print

header(),
  start_html(-title=>'UNIX COMMAND',-bgcolor=>'#00ffff'),
  h1({-align=>'center'}, 'UNIX COMMAND EXECUTION'),
  hr(),
```

```
startform(-method=>'get',-action=>'./lab5b.cgi'),
'ENTER UNIX COMMAND:',    textfield(-name=>'cmd'),br(),
br(),
submit(-value=>'EXECUTE'),
endform(),
hr(),
'$', $cmd=param("cmd"),
br(),
pre(`$cmd`),
end_html();
```

Program 06:

Write a Perl program to accept the User Name and display a greeting message randomly chosen from a list of 4 greeting messages.

b) Write a Perl program to keep track of the number of visitors visiting the web page and to display this count of visitors, with proper headings

A)

```
#!/usr/bin/perl
use CGI ':standard';
print
    header(),
    start_html(-title=>'GREETING',-bgcolor=>'brown'),
    h1({-align=>'center'},'USER GREETING'),
    hr,
    font({-color=>'lightblue',-weight=>'bold',-size=>'5'},'ENTER THE USER
NAME HERE'),
    br,
    start_form(-action=>'./6a.cgi'),
    textfield(-name=>'name'),
    submit(-value=>'SEND'),
    end_form(),
    hr,
    font({-color=>'yellow',-size=>'5'},'DEAR USER'),
    font({-color=>'white',-size=>'8'},$username=param('name'),
br);
@msgs=("GOOD","BAD","HELLO","HELL");
print
    font({-color=>'lightblue',-size=>'8'},$msgs[int rand scalar
@msgs]),
    hr,
    end_html;
```

B)

```
#!/usr/bin/perl
use CGI ':standard';
print

    header(),
    start_html(-bgcolor=>'lightyellow'),
    h1({-align=>'center'}, 'PAGE VISITOR INFO'),
    hr,
    font({-color=>'lightblue', -size=>'4'}, 'This page is visited'),
    br,
    font({-color=>'orange', -size=>'7'}, `grep '/cgi-bin/6b.cgi' accesslog |
wc -l`),
    br,
    font({-color=>'lightblue', -size=>'4'}, 'no of times'),
    br,
    hr,
    end_html;
```

```
ln /var/log/httpd/access_log accesslog
```

Program 07:

Write a Perl program to display a digital clock which displays the current time of the server.

```
#!/usr/bin/perl
use CGI ':standard';

($sec,$min,$hr)=localtime();

print
    header(),
    start_html(-title=>'digital clock',-bgcolor=>'#00ffff'),
    h1({-align=>'center'},'DIGITAL CLOCK'),
    hr(),
    h3({-align=>'center'},"The Current Time is:"),
    h1({-align=>'center'},b("$hr:$min:$sec")),
    "<meta http-equiv='refresh' content = '1'>",
    hr(),
    end_html();
```

Program 08:

Write a Perl program to insert name and age information entered by the user into a table created using MySQL and to display the current contents of this table.

```
#!/usr/bin/perl
use CGI':standard';
use DBI;
$dbh = DBI->connect("DBI:mysql:veena","root") or die "can not connect".DBI->errstr();
$stmt = $dbh->prepare('insert into userinfo values(?,?)') or die "can not insert".$dbh->errstr();
$stmt1 = $dbh->prepare('select * from userinfo') or die "cannot select".$dbh->errstr();
print header(),
      start_html(-title=>'database access',-bgcolor=>'#00ffff'),
      h1({-align=>'center'},'Database Access'),
      hr(),
      h2({-align=>'center'},'Database insert'),
      'ENTER USER INFORMATION',
      start_form(-action=>'./8.cgi'),
      'NAME:',
      textfield(-name=>'name'),
      br,
      'AGE:',
      textfield(-name=>'age'),br,
      submit(-value=>'Insert'),
      reset(-value=>'Reset'),
      end_form(),
      hr();
$name = param('name');
$age = param('age');
if($name eq "")
```

```

{
    print "do not enter null values";
}
else
{
    $sth->execute($ename, $eage) or die "cannot insert".$sth-
>errstr();
    print "successfully inserted";
}
print
    hr(),
    h2({-align=>'center'}, 'Database display'),
    pre(
        'userinfo'

    br(),
        '- 'x 50,br(),
            'NAME  AGE',br(),
        '- 'x 50);
    $sth1->execute();
    while(($ename, $eage)=$sth1->fetchrow())
    {
        print "<pre>$ename  $eage \n</pre>";
    }
    $sth1->finish();
    $sth->finish();
    $dbh->disconnect;
    end_html();

```

Program 09:

Write a PHP program to store current date-time in a COOKIE and display the 'Last visited on' date- time on the web page upon reopening of the same page.

```
<?php
setcookie("lastvisit",date("h:i-m/d/y"),time()+60*60);
?>
<html>
<body bgcolor="lightyellow">
<font size=20pt>
<p align="center"><b><u>COOKIE INFORMATION</u></b></p></font>
<hr>
<?

if(isset($_COOKIE["lastvisit"]))
{
    echo "<font size=10pt color = lightblue><p align=center><i>DEAR USER, YOU
LAST VISITED THE SITE ON </i></p></font>";
    echo "<font size=10pt color =white><p
align=center>".$_COOKIE["lastvisit"];
    echo "</p></font>";
}

else
    echo "You have got some stale cookies";

?>
```


Program 10:

Write a PHP program to store page views count in SESSION, to increment the count on each refresh, and to show the count on web page.

```
<?php
session_start();
?>
<html>
<body bgcolor="lightyellow">
<hr>
<h1 align="center">SESSION INFORMATION</h1>
<hr>

<?
if(isset($_SESSION['views']))
$_SESSION['views'] = $_SESSION['views']+ 1;
else
$_SESSION['views'] = 1;
?>

<h2><i><b>The page is visited</b></i></h2>
<font size=20pt,color=red>
<?
    echo $_SESSION['views']
?>
</font><br>
<i><b>Times</b></i>

</body>
</html>
```

Program 11:

Create a XHTML form with Name, Address Line 1, Address Line 2, and E-mail text fields. On submitting, store the values in MySQL table. Retrieve and display the data based on Name.

INSERT FORM

```
<?xml version="1.0" encoding = "utf-8">

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1//EN"
"http://www.w3.org/TR/xhtml11/DTD/xhtml11.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">

<body bgcolor="lightyellow">

<form method = "post" action="13.php">

<table align="center" width="100%" border="1">

<tr>

<td colspan="2" align="center"><h1>USER INFORMATION</h1></td>

</tr>

<tr>

<td width="50%"><h3>USER INFO ENTRY</h3></td>

</tr>

<tr>

<td>

<table border="1">

<tr>

<td>Name:</td>

<td><input type="text" name="name"/></td>

</tr>

<tr>

<td>ADDRESS1:</td>

<td><input type="text" name="add1"/></td>

</tr>

<tr>
```

```
        <td>ADDRESS2:</td>
        <td><input type="text" name="add2"/></td>
    </tr>
    <tr>
        <td>EMAIL:</td>
        <td><input type="text" name="email"/></td>
    </tr>
    <tr>
        <td colspan="2" align="center">
            <input type="submit" value="INSERT"/>&nbsp;
            <input type="reset" value="RESET"/></td>
    </tr>
</table>
</td>
```

```
</tr>
</table>
```

```
<a href="13a.html" align = center>CLICK HERE TO SEARCH</a>
```

```
</form>
</body>
</html>
```

SEARCH FORM

```
<html>
<head>
<title>Insert title here</title>
</head>
```

```
<html>
<body bgcolor = "lightyellow">
<h2 align = "center">DATABASE SEARCH</h2>

<form action = "13a.php" method="post">
<table>
<tr>
<td>
    <p><b>Enter the user name here:</b></p><br/>
    <input type="text" name="name1"/>&nbsp;
    <input type="submit" value="SEARCH"/>
</td>
</tr>
</table>
<a href="13.html" align = center>HOME</a>
</body>
</html>
```

Program 12:

Using PHP and MySQL, develop a program to accept book information viz. Accession number, title, authors, edition and publisher from a web page and store the information in a database and to search for a book with the title specified by the user and to display the search results with proper headings.

13.php

```
<?php
mysql = mysql_connect("localhost","root","") or die("Cannot connect");
?>

<html>
<body bgcolor = "lightyellow">
<h2 align = "center">USER ENTRY</h2>

<?php
$name = $_REQUEST["name"];
$add1 = $_REQUEST["add1"];
$add2 = $_REQUEST["add2"];
$email = $_REQUEST["email"];

if($name == NULL && $add1 == NULL && $add2 == NULL && $email == NULL)
{
    echo "Dont enter null values";
}
else
{
    mysql_select_db("perlexample") or die("Cannot select the database");
    $result = mysql_query("insert into user_info
values('$name','$add1','$add2','$email')") or die("Cannot insert");
    echo "Successfully Inserted";
}
```

```
}  
?>  
  
<a href="13.html" align = center>HOME</a>  
  
</table>  
  
</body>  
</html>
```

13a.php

```
<?php  
$mysql = mysql_connect("localhost","root","") or die("Cannot connect");  
?>  
  
<html>  
<body bgcolor="lightyellow">  
<h2 align = "center">SEARCH RESULTS</h2>  
  
<?php  
$name1 = $_REQUEST["name1"];  
if($name1==NULL)  
{  
    echo "Dont enter null values";  
}  
else  
{  
  
    mysql_select_db("perlexample") or die("Cannot select the database");
```

```

        $result1 = mysql_query("select * from user_info where name = '$name1'")
or die("Cant select");
}

echo "<hr>";

echo "<table border= 1 align = center>

<tr>

        <td>Name:</td>

        <td>Address1:</td>

        <td>Address2:</td>

        <td>Email:</td>

</tr>";

while($array = mysql_fetch_row($result1))

{
    echo "<tr>

        <td>$array[0]</td>

        <td>$array[1]</td>

        <td>$array[2]</td>

        <td>$array[3]</td>";
}

echo "</table>";

echo "<hr>";

?>

<a href="13.html" align = center>HOME</a>

</body>

</html>

```

12. RUBY ON RAILS

Steps to create a ruby application

1. Create a new application, by issuing the command => rails Books
2. Create the model by using the command => ruby script/generate model book
3. Go to the directory db and make the following changes in the 001_create_books.rb

```
t.column :accessionnumber, :string
t.column :title, :string
t.column :author, :string
t.column :edition, :string
t.column :publisher, :string
```

4. Create the controller file by using the command => ruby script/generate controller main
5. Create the database by name books_development and the table by the name books or use the db migrate command
6. Create the front end forms for insert and search and the result forms and save it in the directory /app/views/main/
7. Write the controller code in file named /app/controllers/main_controller.rb.
8. Start the server by using the command ruby script/server

dbinsert.rhtml

```
<html>
<head><title>DBINSERT</title></head>
<body bgcolor="lightyellow">
<h1 align = "center">DBINSERT</h1>
<hr />
<form action = "resultinsert" method="post">
```



```
<table>
  <tr>
    <td> <b>Enter the Accession Number here:</b> </td>
    <td> <input type="text" name="book[accessionnumber]"
size="30"/></td>
  </tr>
  <tr>
    <td> <b>Enter the title here:</b> </td>
    <td> <input type="text" name="book[title]" size="30"/></td>
  </tr>
  <tr>
    <td> <b>Enter the Author:</b> </td>
    <td> <input type="text" name="book[author]" size="30"/></td>
  </tr>
  <tr>
    <td> <b>Enter the Edition:</b> </td>
    <td> <input type="text" name="book[edition]" size = "30"/></td>
  </tr>
  <tr>
    <td> <b>Enter the Publisher here:</b> </td>
    <td> <input type="text" name="book[publisher]" size="30"/></td>
  </tr>
  <tr>
    <td colspan = "2">
      <input type="submit" value="INSERT"/>
      <input type="reset" value="RESET"/>
    </td>
  </tr>
</table>
```

```
</tr>

</table>
<hr>

</form>
</body>
</html>
```

resultinsert.rhtml

```
<html>
<head><title>DBSEARCH BASED ON TITLE</title></head>
<body bgcolor="lightyellow">
<h1 align = "center">SUCCESSFULLY INSERTED
</h1>
<hr />
</body>
</html>
```

dbsearch.rhtml

```
<html>
<head><title>DBSEARCH BASED ON TITLE</title></head>
<body bgcolor="lightyellow">
<h1 align = "center">DATABASE SEARCH BASED ON TITLE</h1>
<hr />
<form action = "searchresult" method="post">
```

```
<table>
  <tr>
    <td> <b>Enter the title here:</b> </td>
    <td> <input type="text" name="title"/></td>
  </tr>

  <tr>
    <td colspan = "2">

      <input type="submit" value="SEARCH"/>
      <input type="reset" value="RESET"/>
    </td>
  </tr>

</table>
<hr>

</form>
</body>
</html>
```

searchresult.rhtml

```
<html>
<head>
<title> result.rhtml </title>
```

```
</head>

<body bgcolor="lightyellow">
<h1 align = "center"> SEARCH RESULTS </h1>
<hr>
<table border = "border" align="center">
<tr>
    <th> Accession Number </th>
    <th> Title    </th>
    <th> Author    </th>
    <th> Edition    </th>
    <th> Publication </th>
</tr>

<% @names.each do |boo|
    @name = boo.accessionnumber
    @title = boo.title
    @author = boo.author
    @edition = boo.edition
    @publication = boo.publisher %>

<tr>
<td><%= @name %></td>
<td><%= @title %></td>
<td><%= @author %></td>
<td><%= @edition %></td>
<td><%= @publication%></td>
</tr>
<% end %>
</table>
</body>
```

</html>

main_controller.rb

```
class MainController < ApplicationController

  def resultinsert

    @book = Book.new(params[:book])
    if @book.save
      flash[:notice] = 'Book details was successfully created.'
    else
      render :action => 'dbinsert'
    end
  end

end

def searchresult

  @titlename = params[:title]
  @names = book.find(:all, :conditions =>["title = ?",@titlename])
end

end
```