Sl.No Experiments

- 1. Design a personal web page using HTML5 which should include:
 - a.) A brief description about yourself.
 - b.) A small quote describing you.
 - c.)Your photo as the profile picture using canvas
 - d.)An index which should be a list of different headings/sections present in a document in the form of link which when clicked takes you to that heading/section The different sections:
 - Your educational details(Has to be displayed using a table)
 - Your hobbies/interests with small description about that particular hobby.
 - Your Achievements.

Apply styles to the web page using CSS.

```
<!DOCTYPE html>
<html>
<head><title>Personal Web Page</title>
<style type="text/css">
body{width:100px;}

table{border-style:dotted;

border-color:red;}

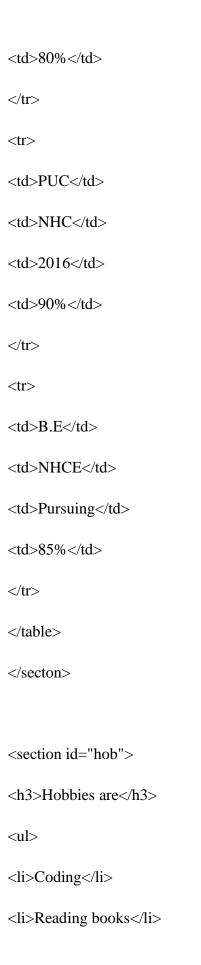
ul{list-style-type: square}

h3{font-style:italic;color:green;}

img{float:right;}

</style>
</head>
<body>
```

```
My name is Eshwar. I am from Bangalore, Karnataka. Currently I am pursuing my
B.E from NHCE, Bangalore.
<img src="abc.jpg" alt="image not found"/>
I am hard working person with a passion for coding
<a href="#edu">Educational Details</a>
<a href="#hob">Hobbies</a>
<a href="#acheivements">Acheivements</a>
<article>
<section id="edu">
<h3>My educational details are</h3>
Education
University/College
Year of passing
Percentage Scored
SSLC
NH Gurukul
 2014
```



Trecking
Participation in Social Services
Watching Movies
Listening to music
<section id="acheivements"></section>
<h3>Acheivements are</h3>

Got 2nd Place in Hacathon
Participated and won many prizes in sports
Miniproject got selected to be funded by College

- 2. Using Linux platform with Apache, develop and demonstrate a XHTML file that includes Javascript script for the following problem:
 - a) Input: A number n obtained using prompt

Output: The first n Fibonacci numbers

b) input: A number

output: factorial of the number

```
<! DOCTYPE html PUBLIC "-//W3C//DTD/XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml10/DTD/xhtml10.dtd">
<html>
<head>
 <script type="text/javascript">
 function fibonacci()
   var n=prompt("Enter a number");
   if(n==n.match(/[0-9]*/))
     var a=0;
     var b=1;
     if(n==0)
    document.write("No such series");
    document.write("<b>FIBONACCI SERIES:<br/></b>");
     if(n==1)
      document.write(a+"<br/>");
     else
       {
        document.write(a+"<br/>");
        document.write(b+"<br/>');
        for(var i=2;i< n;i++)
         {
```

```
var fib=a+b;
           a=b;
           b=fib;
           document.write(fib+"<br/>");
       }
   }
 else
  alert("Inavlid Input");
function factorial()
    var n=prompt("Enter a number");
   if(n==n.match(/[0-9]*/))
     {
      document.write("<h3> factorial </h3>");
             document.write("<table
                                           border='1'
                                                              width='50%'>");
document.write("Factorial (n)" );
             var fact=1;
             for(i=1;i<=n;i++)
             {
                    var fact = fact*i
       document.write( "" + fact + "" );
      document.write( "" );
     }
     else
    alert("Invalid Input");
  } </script>
 </head>
  <body>
   <h3>
```

<center>WEBPAGE TO OUTPUT N FIBONACCI OR FACTORIAL OF N
NUMBERS </center>

```
</h3>
  <h2>
  <center> Select the following Radio Button To Perform Operation
  </center>
  </h2>
  A.FIBONACCI
     <input type="radio" name="a" onclick ="fibonacci()"/>
    B.FACTORIAL
     <input type="radio" name="a" onclick ="factorial()"/>
   </body>
</html>
```

3. Design and develop a XHTML document that includes JavaScript script to create stack of images such that images appear one top on another with images slightly visible. Whenever cursor is placed on an image that image should be completely visible and on moving cursor out image should go back to original position.

```
<html>
<head>
<title> Program 3b </title>
<script type="text/javascript">
//var top1="p1";
var newtop;
function totop(newtop)
{
//domTop=document.getElementById(top1).style;
```

```
domNew=document.getElementById(newtop).style;
//domTop.zIndex="0";
domNew.zIndex="10";
//top=newtop;
function toOriginal()
document.getElementById("p1").style.zIndex=0;
document.getElementById("p2").style.zIndex=0;
document.getElementById("p3").style.zIndex=0;
</script>
<style type="text/css">
.para1{
    position:absolute;
    top:0;
    left:0;
    Z-index:0;
    color:blue;
    border-style:solid;
    background-color:ivory;
   }
.para2{
    position:absolute;
    top:25px;
    left:50px;
    Z-index:0;
    color:red;
    border-style:solid;
    background-color:ivory;
}
.para3 {
    position:absolute;
```

```
top:50px;
    left:90px;
    Z-index:0;
    border-style:solid;
    background-color:ivory;
    }
</style>
</head>
<body>
                        height="50%"
                                        width="50%"
                                                        class="para1"
                                                                       id="p1"
<img src="Photo.jpg"
onmouseover="totop('p1')" onmouseout="toOriginal()" />
       src="Photo.jpg"
                        height="50%"
                                        width="50%"
                                                        class="para2"
                                                                       id="p2"
<img
onmouseover="totop('p2')" onmouseout="toOriginal()" />
<img
       src="Photo.jpg"
                        height="50%"
                                        width="50%"
                                                        class="para3"
                                                                       id="p3"
onmouseover="totop('p3')" onmouseout="toOriginal()" />
</body>
</html>
```

4. Develop and demonstrate, using Javascript, 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) and semester (valid format digit from 1 to 8) 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.

```
<!DOCTYPE html PUBLIC "-//W3C//DTD/XHTML 1.0 Transitional//EN" http://www.w3.org/TR/xhtml10/DTD/xhtml10.dtd">
<html>
<head>
<title> University Seat Number and Sem Validation</title>
```

```
<script type="text/javascript">
       function validate()
        {
         var usn=document.getElementById("txtusn");
         var sem=document.getElementById("txtnum");
         if(usn.value==usn.value.match(/[1-4][A-Z]{2}[0-9]{2})
[A-Z]{2}(?!0{3})[0-9]{3}/)
                                    {
              if(sem.value==sem.value.match(/[1-8]/))
                alert("Entered USN & SEM is valid");
             else
               {
                alert("Entered sem is invalid");
                sem.focus();
                return false;
           }
         else
          {
            alert("Enter valid USN");
            usn.focus();
            return false; }
        }
 </script>
  </head>
  <body >
   <h1><center>Form to validate USN and Sem</center></h1>
   <form onsubmit="return validate()">
   Enter university seat number 
         <input type="text" id="txtusn" maxlength="10"/>
        Enter a semester number
```

5. Develop and demonstrate, using Javascript, a XHTML document that displays text "TEXT-GROWING" with increasing font size in the interval of 100ms in RED COLOR, when the font size reaches 50pt it displays "TEXT-SHRINKING" in BLUE color. Then the font size decreases to 5pt.

```
<!DOCTYPE html PUBLIC "-//W3C//DTD/XHTML 1.0 Transitional//EN"
http://www.w3.org/TR/xhtml10/DTD/xhtml10.dtd">
<html>
<body>
TEXT-GROWING.
TEXT-SHRININKING
</body>
<script>
//Global declerations
var size = 10;
var myWait1 = setInterval(GrowText1, 100);
function GrowText1()
if(size<51)
size = size + 1;
document.getElementById("myP1").style.fontSize = (size+'pt');
document.getElementById("myP1").style.color = "red";
```

```
"text-shriniking"
//Hide
                      the
                                         paragraph
document.getElementById("myP2").style.visibility = "hidden";
}
else
clearInterval(myWait1);
myWait1 = setInterval(ShrinkText1, 100);
         hide
                the
//Now
                      1st
                            paragraph
                                         and
                                               display
                                                               second
                                                                         paragraph
                                                         the
document.getElementById ("myP1").style.visibility\\
                                                                          "hidden";
document.getElementById("myP1").style.fontSize
                                                                              '1pt';
document.getElementById("myP2").style.visibility = "visible";
}
}
function ShrinkText1()
{
if(size>5)
{
size = size - 1;
document.getElementById("myP2").style.fontSize = (size+'pt');
document.getElementById("myP2").style.color = "blue";
}
else
clearInterval(myWait1);
}
}
</script>
</html>
```

6. Design a web page usingXHTML and PHP to process the data from a student marks card form. Student marks card form must collect the student name, USN

and marks of any 3 subjects. The CGI program must compute the total marks, grade and the data must be sent back to the user as another XHTML document to display.

Table for calculating the grade is given below:

Marksin Percentage	Grade
>=90	A
>=80	В
>=60	С
>=40	D
<40	F

```
<!DOCTYPE html>
<html>
<head><title>Student Results</title>
</head>
<body>
<form action="http://localhost/TEST/student.php" method="post">
Enter Details of student
Name:<input type="text" name="NAME"/><br/>
USN:<input type="text" name="USN"/><br/>
Enter Marks for the below subjects:
Web Internet Programming:<input type="text" name="WIP"/><br/>
Computer Networks:<input type="text" name="CN"/><br/>
Data Warehousing and Data Mining:<input type="text" name="DWDM"/><br/>
<input type="submit" value="submit"/><br/>
<input type="reset" value="reset"/><br/>
</form>
</body>
</html>
```

student.php

```
<?php
$name=$_POST['NAME'];
$usn=$_POST['USN'];
$wip=$_POST['WIP'];
$cn=$_POST['CN'];
$dwdm=$ POST['DWDM'];
$Total_Marks=$wip+$cn+$dwdm;
$Avg_Marks = ($Total_Marks)/3;
if($wip>=40 && $cn>=40 && $dwdm>=40){
if(Avg\_Marks >= 90)
Print "<html><i>Student $name With USN $usn has scored A Grade</i>";}
else if($Avg_Marks >=80 && $Avg_Marks <90){
Print "<html><i>Student $name With USN $usn has scored B Grade</i>";}
else if($Avg_Marks >=60 && $Avg_Marks <80){
Print "<html><i>Student $name With USN $usn has scored C Grade</i>";}
else if($Avg_Marks >=40 && $Avg_Marks <60){
Print "<html><i>Student $name With USN $usn has scored D Grade</i>";}
}
else{
Print "<html><i>Student $name With USN $usn has scored F Grade</i>";}
Print "</html>";
?>
```

7. Design a web page using XHTML and PHP to insert emp_id, emp_name and experience information entered by the user into a table created using MySQL and to display the current contents of this table. Also retrieve the details of the employee based on the emp_id as specified by the user.

<?php

if(!(\$con))

{

\$name=\$_POST['name'];

\$exp=\$_POST['exp'];

\$emp_id=\$_POST['emp_id'];

\$con=mysqli connect("localhost","root","");

```
Emp.html
<!DOCTYPE html>
<html>
<head>
<title>Insertion of Employee information to Database</title>
</head>
<body>
<i style="color:red;font-size:20pt">Enter the following information to be inserted into
Database</i>
<form action="http://localhost/TEST/lab7.php" method="post">
Enter Name:<input type="text" name="name"/><br/>
Enter employee id:<input type="text" name="emp_id"/><br/>
Enter experience:<input type="text" name="exp"/><br/>
<input type="submit" value="submit details"/>
<input type="reset" value="reset"/>
</form>
</body>
</html>
insert.php
<html>
<head>
</head>
<body>
```

```
die("error in connecting to DB");
}
else
{
      print "<i style='color:green'>connection successfull</i>';
}
$db=mysqli select db($con,"userinfo");
$query="insert into user detail values('$name',$emp id,$exp)";
mysqli_query($con,$query);
$result=mysqli query($con,"select * from user detail");
$rows=mysqli num rows($result);
echo "<i style='color:blue'>num of rows inserted into the user detail table are
$rows</i>";
echo "Nameemp idexp";
for($row=1;$row<=$rows;$row++)
{
$rowv=mysqli fetch array($result,MYSQLI ASSOC);
echo "".$rowv['name']."";
echo "".$rowv['emp id']."";
echo "".$rowv['exp']."";
}
echo "";
mysqli close($con);
<h4>Enter user name to be searched</h4>
<form action="http://localhost/TEST/search.php" method="post">
Enter employee id to be searched:<input type="text" name="emp_id"/>
<input type="submit" value="Search"/>
<input type="reset" value="reset"/>
</form>
</body>
</html>
```

```
search.php
<html>
<head>
</head>
<body>
<?php
$name=$ POST['emp id'];
$con=mysqli_connect("localhost","root","");
if(!($con))
      die("error in connecting to DB");
}
else
      print "<i style='color:green'>connection successfull</i>/>";
}
$db=mysqli select db($con,"userinfo");
$result=mysqli_query($con,"select * from user_detail where name='$emp_id''');
$rows=mysqli num rows($result);
if(srows==0)
echo "<i style='color:red;'>There are no rows with the name as $emp id<i>";
else
echo "<i style='color:blue'>num of rows in the user detail table with user name as
$emp id are $rows</i><br />";
echo "Nameemp idexp</ht>";
for($row=1;$row<=$rows;$row++)
$rowv=mysqli fetch array($result,MYSQLI ASSOC);
```

```
echo "".$rowv['name']."";
echo "".$rowv['emp_id']."";
echo "".$rowv['exp']."";
}
echo "";
}
mysqli_close($con);
?>
</form>
</body>
</html>
```

8. Design a web page using XHTML and PHP 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
 date_default_timezone_set("Asia/Calcutta");
      $current_time = date("H:i:s d/m/Y");
      time_to_expire = time() + 60*60;
      setcookie("Last_Accessed",$current_time,$time_to_expire);
      if(isset($_COOKIE["Last_Accessed"]))
       {
              $last_visit = $_COOKIE["Last_Accessed"];
              print "<br>>Last Accessed : $last_visit";
       }
      else
       {
             print "<br/>br>This page has been visited for the first time.";
       }
   print "<br>>Current Time: <b>$current_time</b>";
      print "<br>>Thank you";
?>
```

9. Design an XML document with DTD specification to store information about a student in an engineering college affiliated to VTU. The information must include USN, Name, Name of the College, Brach, 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.

```
<?xml version="1.0" encoding="utf-8"?>
<?xml-stylesheet type="text/css" href="vtu.css"?>
<!DOCTYPE [ VTU <!ELEMENT VTU (STUDENT+)>
<!ELEMENT STUDENT (USN,NAME,COLLEGE,BRANCH,YOJ,EMAIL)>
<!ELEMENT USN (#PCDATA)>
<!ELEMENT NAME (#PCDATA)>
<!ELEMENT COLLEGE (#PCDATA)>
<!ELEMENT BRANCH (#PCDATA)>
<!ELEMENT YOJ (#PCDATA)>
<!ELEMENT EMAIL (#PCDATA) >
<!ENTITY ise "Information Science and Engineering">
<!ENTITY cse "computer Science and Engineering">
<!ENTITY NHCE "New Horizon College of Engineering,Bengaluru">
]>
<VTU>
     <STUDENT>
           <USN>1NH17IS001</USN>
           <NAME>AAAAA</NAME>
           <COLLEGE>NHCE</COLLEGE>
           <BRANCH>ise</BRANCH>
           <YOJ>2017</YOJ>
           <EMAIL>AAAAA@GMAIL.COM</EMAIL>
     </STUDENT>
     <STUDENT>
           <USN>1NH17CS002</USN>
           <NAME>BBBBB</NAME>
```

vtu.css

USN{color:magenta;font-family:verdana;font-size:20pt;}

NAME{color:blue;font-family:verdana;font-size:20pt;}

COLLEGE{color:black;font-family:verdana;font-size:20pt;}

BRANCH{color:maroon;font-family:verdana;font-size:20pt;}

YOJ{color:purple;font-family:verdana;font-size:20pt;}

EMAIL{color:green;font-family:verdana;font-size:20pt;}

STUDENT{display:block;margin-top:30px;border-style:solid;}

10. 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, Brach, Year of Joining, and e-mail id. Make up sample data for 2 students. Display the details using XSLT

```
<USN>1NH17IS001</USN>
           <NAME>AAAAA</NAME>
           <COLLEGE>NHCE</COLLEGE>
           <BRANCH>ISE</BRANCH>
           <YOJ>2017</YOJ>
           <EMAIL>AAAAA@GMAIL.COM</EMAIL>
     </STUDENT>
     <STUDENT>
           <USN>1NH17CS002</USN>
           <NAME>BBBBB</NAME>
           <COLLEGE>NHCE</COLLEGE>
           <BRANCH>CSE</BRANCH>
           <YOJ>2017</YOJ>
           <EMAIL>BBBBB@GMAIL.COM</EMAIL>
     </STUDENT>
     <STUDENT>
           <USN>1NH17IS003</USN>
           <NAME>CCCCC</NAME>
           <COLLEGE>NHCE</COLLEGE>
           <BRANCH>ISE</BRANCH>
           <YOJ>2017</YOJ>
       <EMAIL>CCCCC@GMAIL.COM</EMAIL>
     </STUDENT>
</VTU>
Student.xsl
<?xml version="1.0" encoding="utf-8"?>
<xsl:stylesheet version="1.0"</pre>
           xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
<xsl:template match="/">
 <html>
```

<body style="background-color:pink">

```
<center> <h2>STUDENT INFORMATION:</h2> </center>
 USN NAME COLLEGE BRANCH
    YEAR OF JOINING EMAIL
    <xsl:for-each select="VTU/STUDENT[USN='1NH17CS002']">
    <xsl:value-of select="USN"/>
    <xsl:value-of select="NAME"/>
    <xsl:value-of select="COLLEGE"/>
    <xsl:value-of select="BRANCH"/>
    <xsl:value-of select="YOJ"/>
    <xsl:value-of select="EMAIL"/>
    </xsl:for-each>
  </body>
</html>
</xsl:template></xsl:stylesheet>
```