Course Code: 20CSL66

### **PROGRAM NO.: 1**

**AIM:** Design Login Page using HTML tags: Login page must contain Login field, Password field, Submit and Reset buttons (also include email address)

### THEORY:

- The <html> tag represents the root of an HTML document. It is the container for all other HTML elements (except for the <!DOCTYPE> tag).
- The <head> element is a container for metadata (data about data) and is placed between the <html> tag and the <body> tag.
- The <body> element contains all the contents of an HTML document,
   such as headings, paragraphs, images, hyperlinks, tables, lists, etc.
- The <form> tag is used to create an HTML form for user input.
- The <input> tag specifies an input field where the user can enter data.
   he<input> element can be displayed in several ways, depending on the type attribute.

#### CODE:

Course Code: 20CSL66

</body>

# **OUTPUT:**

LOGIN FORM	
Username:	
Email:	
Password:	
Submit Reset	

**RESULT:** A Login Page using HTML tags containing a Login field, Password field, Submit and Reset buttons was designed and implemented successfully.

Course Code: 20CSL66

# PROGRAM NO.: 2

**AIM:** Design the following static web pages required for an online book store web site. HOME PAGE: The static home page must contain three frames.

- Top frame: Logo and the college name and links to home page, Login page, Registration page, Catalogue page and Cart page (the description of these pages will be given below).
   Left frame: At least three links for navigation, which will display the catalogue of respective links. For e.g.: When you click the link "CSE" the catalogue for CSE Books should be displayed in the Right frame.
- 3) Right frame: The pages to the links in the left frame must be loaded here. Initially this page contains description of the web site.

#### THEORY:

- The <html> tag represents the root of an HTML document. It is the container for all other HTML elements (except for the <!DOCTYPE> tag).
- The <head> element is a container for metadata (data about data) and is placed between the <html> tag and the <body> tag.
- The <body> element contains all the contents of an HTML document,
   such as headings, paragraphs, images, hyperlinks, tables, lists, etc.
- The <frameset> tag in HTML is used to define the frameset. The
   <frameset>element contains one or more frame elements.
- The <frame> tag is used to define one particular window (frame) within a <frameset>.

## CODE:

```
<frameset rows="20, 80">
         <frame src="p2_header.html" name="head_page">
         <frameset cols="15, 85">
               <frame src="p2_left.html" name="dept_page">
               <frame src="p2_landing.html" name="des_page">
          </frameset>
                                                         Page No: 3
                       Course Code: 20CSL66
    </frameset>
</html>
(Top Frame Page → p2_header.html)
<!DOCTYPE html>
<html>
<head>
<title>Head Page</title>
<style>
body { background-color:#E2FBFF; }
td { text-align: center; }
</style>
</head>
<body>
<font face="Arial Black" size="3">
<table border="1" cellspacing="0" cellpadding="0"
width="100%">
<imgsrc="nhcelogo.jpg" width="100" height="80"/>
<h2>NEW HORIZON COLLEGE OF ENGINEERING</h2>
<h3> Bengaluru </h3>
```

```
<a href="p2_landing.html" target="des_page">HOME</a>
<a href="../P1/p1_loginpage_with_css.html"
target="des_page">LOGIN</a>
<a href="../P1/p1_userform_practice_2.html"
target="des_page">REGISTRATION</a>
Page No: 4
                      Course Code: 20CSL66
<a href="../P3/p3_catalogue.html"
target="des_page">CATALOGUE</a>
<a href="cart.html" target="des_page">CART</a>
</font>
</body>
</html>
(Left Frame Page → p2_left.html)
<!DOCTYPE html>
<html>
<head>
    <style>
         body { background-color:#D6EAF8; }
         h1 { padding-bottom: 130px; }
    </style>
</head>
<body>
```

<center>

<h1><a href="cse\_cat.html"

target="des\_page">CSE</a></h1><a

```
href="ise_cat.html"
target="des_page">ISE</a></h1><a
href="aiml cat.html"
target="des_page">AIML</a></h1></center>
</body>
</html>
(Right Frame Page → p2_landing.html)
<!DOCTYPE html>
<html>
     <head>
          <style>
               body { background-color:#EBF5FB; }
               h1 { font-size:40px; }
                                                             Page No: 5
                        Course Code: 20CSL66
               p { font-size:30px; }
          </style>
     </head>
     <body>
     <center>
          <h1> Welcome to New Horizon College of Engineering! </h1>
          >
           New Horizon College of Engineering is an Autonomous college
                          Visvesvaraya Technological University (VTU),
           affiliated to
           approved by the All India Council for Technical Education
           (AICTE) & University Grants Commission (UGC). It is accredited
           by NAAC with 'A' grade & National Board of Accreditation (NBA).
           New Horizon college of Engineering is located in the heart of the
           IT capital of India, Bangalore. The college campus is situated in
           the IT corridor of Bangalore surrounded by MNCs and IT giants.
          <br>
          >
           NHCE has a scenic and serene campus that provides an
```

environment which is conducive for personal and intellectual growth. The infrastructure acts as a facilitator for the effective delivery of the curriculum. NHCE boasts of state-of-the art facilities for its students. They are given utmost encouragement in their areas of interest by providing hi-tech facilities backed by faculty support.

</center>
</body>
</html>

Page No: 6

Course Code: 20CSL66

#### **OUTPUT:**



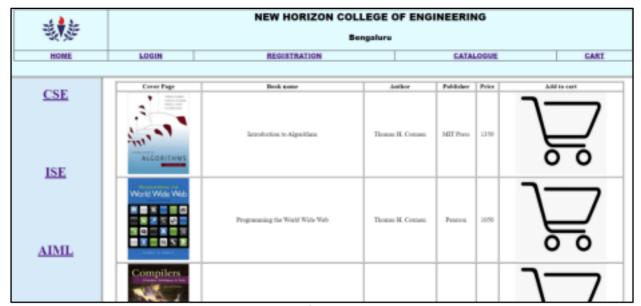
被夢	Bengaluru						
HOME	LOGIN	REGISTRATION		CATALOGUE	CART		
CSE		LOGIN	FORM				
<u>ISE</u>		Email: Paumopt: Subnet	Reset				
_6 3 3_		NEW HORIZON COLLE	GE OF ENG	SINEERING			
製造		Benga	duru				
HOME	LOGIN	REGISTRATION		CATALOGUE	CART		
CSE		USER ENTI	RY FORM				
		Enter your name:					
		Enter your age:					
		Enter your password	l:				
ISE		Enter your address:					
		Enter your pincode:					
		Enter your email ID					
		Gender:	Male     Female				
AIML		Languages known:	C++ Java Python		Page No		
					i age ive		

nt & 3-		NEW HORIZON COL	LEGE OF ENG	NEERI	1G	
""	Bengaluru					
HOME	LOGIN	REGISTRATION		CATA	LOGUE	CART
CSE	Corer Page	Book name	Author	Publisher	Price	Add to cart
ISE	ALCORITHMS	Introduction to Algorithms	Thomse H. Comsen	MII Press	1350	
AIML	Compilers	Compilers: Principles, Techniques, and Tools	Alfred Alse	Penrou	900	$\Rightarrow$
rt:	World Wide Web				$\Box$	٦









**RESULT:** Static web pages required for an online book store web site were designed and implemented successfully.

Course Code: 20CSL66

# PROGRAM NO.: 3

**AIM:** Design CATALOGUE PAGE: The catalogue page should contain the details of all the books available in the web site in a table. The details should contain the following: 1. Snap shot of Cover Page.

- 2. Book name
- 3. Author Name.
- 4. Publisher.
- 5. Price.
- 6. Add to cart button.

### THEORY:

• The <html> tag represents the root of an HTML document. It is the

- container for all other HTML elements (except for the <!DOCTYPE> tag).
- The <head> element is a container for metadata (data about data) and is placed between the <html> tag and the <body> tag.
- The <body> element contains all the contents of an HTML document,
   such as headings, paragraphs, images, hyperlinks, tables, lists, etc.
- The tag defines an HTML table. An HTML table may also include <caption>, <colgroup>, <thead>, <tfoot>, and elements.
- The tag defines a header cell in an HTML table. The tag
   defines a standard data cell in an HTML table.

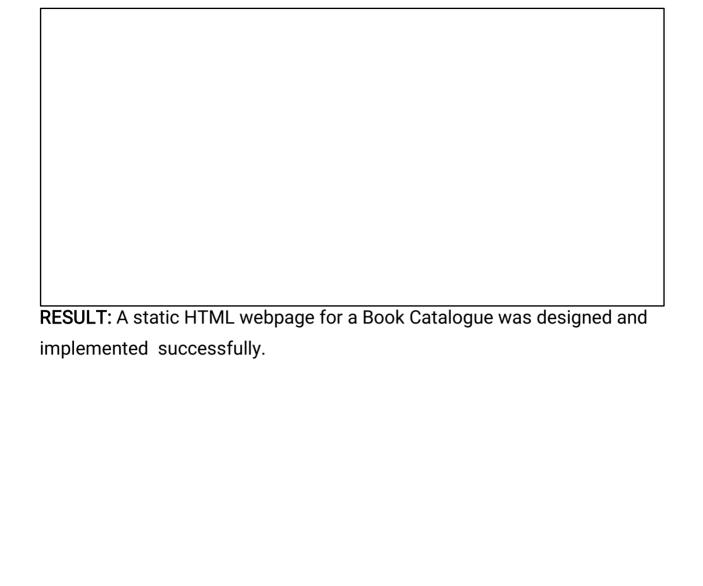
```
CODE:
<!DOCTYPE html>
<html>
<head>
  <style> td { text-align:center; } </style>
</head>
<body>
<center>
  Cover Page
         Book name
         Author
                                   Page No: 10
              Course Code: 20CSL66
         Publisher
         Price
         Add to cart
      ="150">
```

Introduction to Algorithms

```
Thomas H. Cormen
         MIT Press
         1350
    <imgsrc="cart.png" height="200" width="220">
      ="150">
   Compilers: Principles, Techniques, and Tools
         Alfred Aho
         Pearson
         900
    <imgsrc="cart.png" height="200" width="220">
      ="150">
         Programming the World Wide Web
         Thomas H. Cormen
         Pearson 
         1050
    <imgsrc="cart.png" height="200" width="220">
      </center>
</body>
</html>
```

Course Code: 20CSL66

**OUTPUT:** 



- AIM: Design a web page using CSS (Cascading Style Sheets) which includes the following: A. Use different font, styles: In the style definition you define how each selector should work (font, color etc.). Then, in the body of your pages, you refer to these selectors to activate the styles.
  - B. Set a background image for both the page and single elements on the page. C. Control the repetition of the image with the background-repeat property

# THEORY:

- CSS is the language we use to style an HTML document. CSS describes how HTML elements should be displayed.
- The .class selector selects elements with a specific class attribute. To select elements with a specific class, write a period (.) character, followed by the name of the class. The background-image property sets one or more background images for an element. The background-repeat property sets if/how a background image will be repeated. By default, a background-image is repeated both vertically and horizontally.

# CODE:

```
.myclass_2 {
                color: blue;
          }
          /*ID Selector*/
          #my_h4 {
                color: green;
          }
          /*Pseudo-Class Selector*/
          h1:hover {
                background-color: red;
                color:white;
          }
          /*Universal Selector*/
          * {
                //font-size: 25px;
          }
     </style>
</head>
<body>
     <h1> Rahul M Dinesh / 1NH18CS738 </h1>
     <h2 class="myclass_1"> Rahul M Dinesh /
     1NH18CS738 </h2><h3 class="myclass_2">
     Rahul M Dinesh / 1NH18CS738 </h3><h4
     id="my_h4"> Rahul M Dinesh / 1NH18CS738
```

```
</body>
```

```
(Part B)
<!DOCTYPE html>
<html>
     <head>
          <style>
                body {
             background-image:url("CSE Dept Logo.png")
                }
          </style>
     </head>
     <body>
          <h1> Welcome to Department of CSE, NHCE!</h1>
     </body>
</html>
(Part C)
<!DOCTYPE html>
<html>
     <head>
          <style>
                body {
              background-image:url("CSE Dept Logo.png");
                     background-repeat:no-repeat;
                }
          </style>
     </head>
     <body>
          <h1> Welcome to Department of CSE, NHCE! </h1>
```

	Page No: 1
Course Code: 20CSL66	3
OUTPUT:	
Part A (when universal selector line is commented)	
Part A (when universal selector line is not commented)	
Tart A (When aniversal selector line is not commented)	
Part A (pseudo-class selector is active when mouse hovelement)	ers over <h1></h1>
element)	

Part B:

</body>

</html>

		<u>Page N</u> 16
	Course Code: 20CSL66	10
Part C:		

**RESULT:** HTML webpages using CSS selectors and background image were designed and implemented successfully.

Course Code: 20CSI 66

# **PROGRAM NO.: 5**

AIM: Write an HTML page that contains a selection box with a list of 5 countries. In the above page, when the user selects a country, its capital should be printed next to the list. Also add CSS to customize the properties of the font of the capital.

#### THEORY:

- A JavaScript function is a block of code designed to perform a particular task. A JavaScript function is executed when it is called.
- A JavaScript function is defined with the function keyword, followed by a name, followed by parentheses ().
- Function names can contain letters, digits, underscores, and dollar signs (same rules as variables).
- The code to be executed, by the function, is placed inside curly brackets:
- {} The getElementById() method returns the element that has the ID attribute with the specified value.

### CODE:

```
<html>
<head>
     <title> Country & Capital </title>
     <script type = "text/javascript">
          functionOnDropDownChange(dropDown)
 // dropDown.options to select the drop down list value based on index
   // and store it in some variable for displaying in the browser
  varselectedValue = dropDown.options[dropDown.selectedIndex].value;
 //method to find html element with id "SelectedCapitaltxt" and change
          // the element content (innerHTML) to selectedValue
     document.getElementById("SelectedCapitaltxt").innerHTML
```

= selectedValue:

```
</script>
 </head>
 <body>
                                                               Page No: 18
                           Course Code: 20CSL66
       <form action= "">
<select name="Countries" onChange = "OnDropDownChange(this);">
                  <option value=""> ..Select a country...
                  <option value="New Delhi"> India </option>
       <option value="Washington D.C."> United States </option>
          <option value="London"> United Kingdom </option>
                  <option value="Jerusalem"> Israel </option>
                  <option value="Moscow"> Russia </option>
            </select>
            <h1 style="color: blue; font-family: verdana; font-size: 20pt;"
                  id="SelectedCapitaltxt" type="text"></h1>
       </form>
 </body>
 </html>
  OUTPUT:
```

**RESULT:** Designed and implemented an HTML webpage that changes dynamically to display the selected country's capital with CSS styles successfully.

Course Code: 20CSL66

# **PROGRAM NO.: 6**

**AIM:** Write an HTML page including java script that takes a given set of integer numbers and shows them after sorting in descending and ascending order.

## THEORY:

- The sort() method sorts the items of an array. The sort order can be either alphabetic or numeric, and either ascending (up) or descending (down).
- By default, the sort() method sorts the values as strings in alphabetical and ascending order. Because of this, the sort() method will produce an incorrect result when sorting numbers. To handle numeric sorting, sort() can take a *compareFunction* parameter that defines an alternate sorting order.

# CODE:

```
document.getElementById("demo").innerHTML = points.join(", ");
           function Descending()
                points.sort(function(a, b){return b - a});
     document.getElementById("demo").innerHTML = points.join(", ");
                                                               Page No: 20
                          Course Code: 20CSL66
           function Ascending()
           {
                points.sort(function(a, b){return a - b});
     document.getElementById("demo").innerHTML = points.join(", ");
           }
     </script>
</body>
</html>
OUTPUT:
On Loading:
After clicking on Descending order button
After clicking on Ascending order button
```

**RESULT:** An HTML page including java script that takes a given set of integer numbers and shows them after sorting in descending and ascending order was designed and implemented successfully.

Page No: 21

Course Code: 20CSL66

PROGRAM NO.: 7

**AIM:** Design an XML document to store information about Airline system which has the following information: airline number, name, destination, year of manufacturing, price. Create sample data for three airlines. Create CSS style sheet and display it.

## THEORY:

- XML stands for eXtensibleMarkup Language.
- XML is a software- and hardware-independent tool for storing and transporting data.
   XML was designed to be both human- and machine-readable.
- In XML, tags or elements are user-defined. The first element of XML document is called root element. A simple XML document contain opening tag and closing tag.
   XML tags are case sensitive i.e., <root> and <Root> both tags are different. The XML tags are used to define the scope of elements in XML document.
- In order to display the XML file using CSS, link XML file with CSS.

# CODE:

(XML file)

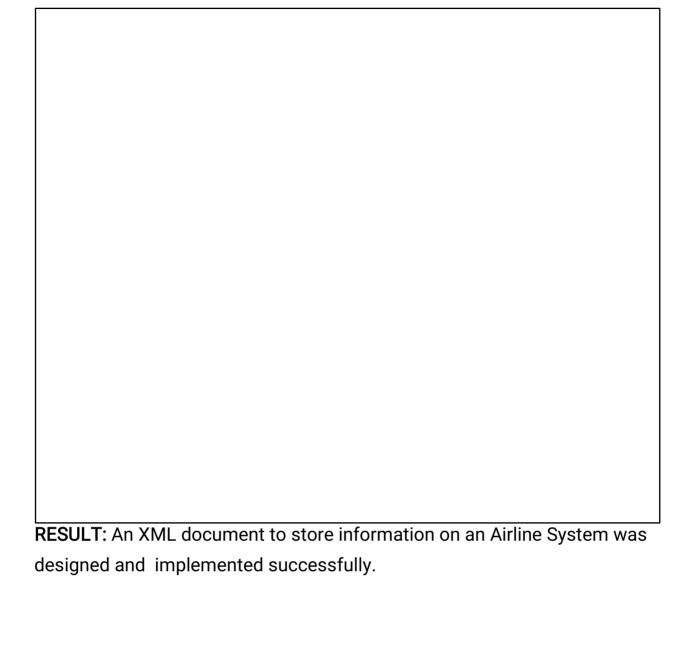
<?xml version="1.0" ?>

<?xml-stylesheet type="text/css" href="p7\_xml\_css.css" ?>

```
<airline>
    <ad><ad>program></ad>
    <info>
          <ad><heading> American Airlines </heading></ad>
          <ad> Flight number: <Anumber> AA001 </Anumber></ad>
          <ad> Name: <name> Rahul M Dinesh </name></ad>
          <ad> Destination: <dest> Seattle </dest></ad>
          <ad> Year Of Manufacturing: <yom> 2010 </yom></ad>
          <ad> Price: <price> 1,20,000 </price></ad>
    </info>
    <info>
          <ad><heading> Emirates </heading></ad>
          <ad> Flight number: <Anumber> EK101 </Anumber></ad>
          <ad> Name: <name>RohithArsha</name></ad>
          <ad> Destination: <dest> Dubai </dest></ad>
          <ad> Year Of Manufacturing: <yom> 2012 </yom></ad>
                                                          Page No: 22
                       Course Code: 20CSL66
          <ad> Price: <price> 90,000 </price></ad>
    </info>
    <info>
          <ad><heading> British Airways </heading></ad>
          <ad> Flight number: <Anumber> BA001
          </Anumber></ad><ad> Name:
          <name>Shivanand G
          Prabhu</name></ad><ad> Destination: <dest>
          London </dest></ad>
          <ad> Year Of Manufacturing: <yom> 2016
          </yom></ad><ad> Price: <price> 1,00,000
          </price></ad>
    </info>
</airline>
(CSS file)
ad {
```

```
display: block;
     font: bold 20px Times;
     color: brown;
     line-height: 30px;
}
program {
     text-decoration: underline;
     font-size:30px;
     color:red; }
heading {
     font: bold 25px Times;
     color: blue; }
airline {
     margin-top: 10px;
     margin-left: 10px;
     color: black; }
info {
     color: gray;
     padding: 100px; }
Anumber, name {
     color: red;
     font-size: 20px;
                                                                   Page No: 23
                           Course Code: 20CSL66
     font-weight: normal; }
dest {
     color: blue;
     font-size: 20px;
     font-weight: normal; }
yom, price {
     color: green;
     font-size: 20px;
     font-weight: normal; }
```

**OUTPUT:** 



# **PROGRAM NO.: 8**

AIM: Design an XML document to store information about patients in a hospital. Information about patients must include name (in 3 parts, first name, middle name, last name), age, room number, primary insurance company – including member identification number, group number, known medical problems, and known drug allergies. Both attributes and nested tags must be included. Create a CSS style sheet for the above XML document and use it to create a display of that document.

```
(XML file)
<?xml version="1.0"?>
<?xml-stylesheet type="text/css" href="style.css"?>
<hospital>
    <ad><heading> Hospital - Patient Data </heading></ad>
    <ad>-----</ad>
    <patient>
          <ad><heading_small> Name </heading_small></ad>
          <name>
      <adl>First name: <fname>Aishwarya</fname></adl>
      <adl>Midle name: <mname>Satish</mname></adl>
                 <adl>Last name: <lname> Kumar </lname></adl>
          </name>
          <ad>Age: <age> 23 </age></ad>
          <ad>Room number: <rnum> 201 </rnum></ad>
          <ad><heading_small> Primary Insurance </heading_small></ad>
          <insurancecompany type="primary">
               <adl>Insurance name: <insurancename> LIC
               </insurancename></adl><adl>Primary ID: <pnum>
               15647 </pnum></adl>
               <adl>Group ID: <gnum> 54 </gnum></adl>
```

</insurancecompany>

```
<ad><heading_small> Secondary Insurance
     </heading_small></ad><insurancecompany
     type="secondary">
          <adl>Insurance name: <insurancename> HDFC
          </insurancename></adl><adl>Primary ID: <pnum> 564
          </adl>
          <adl>Group ID: <gnum> 9462 </gnum></adl>
     </insurancecompany>
     <ad>Existing medical problems: <medicalprobs> Asthma
</medicalprobs></ad><ad>Existing allergies: <knownallergies> Dust
</knownallergies></ad></patient>
<ad>-----
<patient>
     <ad><heading_small> Name </heading_small></ad>
     <name>
<adl>First name: <fname> Johnathan </fname></adl>
          <adl>Midle name: <mname> H </mname></adl>
          <adl>Last name: <lname> Smith </lname></adl>
     </name>
     <ad>Age: <age> 64 </age></ad>
     <ad>Room number: <rnum> 501 </rnum></ad>
     <ad><heading_small> Primary Insurance </heading_small></ad>
     <insurancecompany type="primary">
          <adl>Insurance name:
      <insurancename>Dhanalaxmi</insurancename>
          </adl>
          <adl>Primary ID: <pnum> 746 </pnum></adl>
          <adl>Group ID: <gnum> 74 </gnum></adl>
     </insurancecompany>
     <ad><heading_small> Secondary Insurance
     </heading_small></ad><insurancecompany
```

```
type="secondary">
           <adl>Insurance name:
        <insurancename> LIC Jeevan</insurancename>
           </adl>
           <adl>Primary ID: <pnum> 23 </pnum></adl>
           <adl>Group ID: <gnum> 647 </gnum></adl>
      </insurancecompany>
      <ad>Existing medical problems: <medicalprobs> Diabetes
 </medicalprobs></ad><ad>Existing allergies: <knownallergies>
 Azithromycin </knownallergies></ad></patient>
 <patient>
      <ad><heading_small> Name </heading_small></ad>
      <name>
           <adl>First name: <fname> Shiv </fname></adl>
 <adl>Midle name: <mname> Shankar </mname></adl>
       <adl>Last name: <lname> Narayan </lname></adl>
      </name>
      <ad>Age: <age> 35 </age></ad>
      <ad>Room number: <rnum> 201 </rnum></ad>
      <ad><heading_small> Primary Insurance </heading_small></ad>
      <insurancecompany type="primary">
           <adl>Insurance name: <insurancename> SBI Life
           </insurancename></adl><adl>Primary ID: <pnum> 57465
           </adl>
           <adl>Group ID: <gnum> 5434 </gnum></adl>
      </insurancecompany>
<ad><heading_small> Secondary Insurance </heading_small></ad>
      <insurancecompany type="secondary">
           <adl>Insurance name:
       <insurancename> Axis Health </insurancename>
           </adl>
```

```
<adl>Group ID: <gnum> 124 </gnum></adl>
           </insurancecompany>
           <ad>Existing medical problems: <medicalprobs> High B.P.
     </medicalprobs></ad><ad>Existing allergies:
     <knownallergies>Paracetamol</knownallergies></ad></patient>
     <ad>-----</ad>
</hospital>
(CSS file)
ad { display:block; font: bold 20px Times; color: brown; line-height:30px; }
heading { font: bold 25px Times; color:blue; text-decoration: underline; }
adl { display:block; font: bold 20px Times; color: brown; line-height:30px;
padding-left:35px; }
heading_small { font: bold 20px Times; color:purple; }
patient { color:gray; padding: 100px; }
fname, mname, lname { color:red; font-size:20px; font-weight: normal; }
age, rnum { color:fuchsia; font-size:20px; font-weight: normal; }
insurancename, pnum, gnum { color:blue; font-size:20px; font-
weight: normal; } medicalprobs, knownallergies { color:green;
font-size:20px; font-weight: normal; }
```

Course Code: 20CSL66

<adl>Primary ID: <pnum> 732 </pnum></adl>

Page No: 28

OUTPUT:	l
	D M
	Page No: 29

Course Code: 20CSL66						

**RESULT:** An XML document to store information about patients in a hospital along with CSS styling was designed and implemented successfully.

Page No: 30

Course Code: 20CSL66

# PROGRAM NO.: 9

**AIM:** Create the XSLT style sheet to format all the patient elements of the XML, document of program 8 and use it to create a display of whole element

<Iname> Kumar

```
</name>
     <age> 23 </age>
    <rnum> 201 </rnum>
     <insurancecompany type="primary">
          <insurancename> LIC </insurancename>
          <pnum> 15647 
          <gnum> 54 </gnum>
     </insurancecompany>
    <insurancecompany type="secondary">
          <insurancename> HDFC </insurancename>
          <pnum> 564 
          <gnum> 9462 </gnum>
    </insurancecompany>
     <medicalprobs> Asthma </medicalprobs>
    <knownallergies> Dust </knownallergies>
</patient>
<patient>
     <name>
          <fname> Johnathan </fname>
          <mname> H </mname>
          <Iname> Smith 
     </name>
     <age> 64 </age>
     <rnum> 501 </rnum>
     <insurancecompany type="primary">
          <insurancename>Dhanalaxmi</insura</pre>
          ncename><pnum> 746 </pnum>
          <gnum> 74 </gnum>
     </insurancecompany>
     <insurancecompany type="secondary">
          <insurancename> LIC
          Jeevan</insurancename><pnum> 23
          </pnum>
          <gnum> 647 </gnum>
     </insurancecompany>
    <medicalprobs> Diabetes </medicalprobs>
```

```
<knownallergies> Azithromycin
    </knownallergies></patient>
     <patient>
          <name>
               <fname> Shiv </fname>
               <mname> Shankar </mname>
               <Iname> Narayan 
          </name>
          <age> 35 </age>
          <rnum> 201 </rnum>
          <insurancecompany type="primary">
               <insurancename> SBI Life </insurancename>
               <pnum> 57465 
               <gnum> 5434 </gnum>
          </insurancecompany>
          <insurancecompany type="secondary">
               <insurancename> Axis Health </insurancename>
               <pnum> 732 </pnum>
               <gnum> 124 </gnum>
          </insurancecompany>
          <medicalprobs> High B.P. </medicalprobs>
          <knownallergies>Paracetamol</knownallergies>
     </patient>
</hospital>
(XSL file)
<?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>
<head>
<style>
```

```
td {
text-align: center;;
}
</style>
</head>
<body>
<h2>Hospital patients</h2>
Name
Age
Room number
Primary Insurance
Secondary Insurance
Existing Medical Problems
Existing Allergies
First Name
Middle Name
Last Name
Insurance Name
Personal ID
Group ID
Insurance Name
Personal ID
Group ID
<xsl:for-each select="hospital/patient">
 <xsl:value-of select="name/fname"/> 
     <xsl:value-of select="name/mname"/> 
     <xsl:value-of select="name/lname"/> 
     <xsl:value-of select="age"/> 
     <xsl:value-of select="rnum"/>
```

```
<xsl:value-of select="insurancecompany[@type='primary']/insurancename"/>
      <xsl:value-of select = "insurancecompany[@type='primary']/pnum"/>
      <xsl:value-of select="insurancecompany[@type='primary']/gnum"/>
      <xsl:value-of
 select="insurancecompany[@type='secondary']/insurancename"/>
      <xsl:value-of select="insurancecompany[@type='secondary']/pnum"/>
      <xsl:value-of select="insurancecompany[@type='secondary']/gnum"/>
      <xsl:value-of select="medicalprobs"/> 
      <xsl:value-of select="knownallergies"/> 
      </xsl:for-each>
 </body> </html>
</xsl:template> </xsl:stylesheet>
```

## PROGRAM NO.: 10

AIM: Write PHP program to find transpose of a matrix and addition of two matrix.

### THEORY:

- PHP is a server scripting language, and a powerful tool for making dynamic and interactive Web pages.
- It is a programming language that allows web developers to create dynamic content that interacts with databases.
- PHP is basically used for developing web based software

applications. • In PHP, a variable starts with the \$ sign, followed by the name of the variable. • PHP echo or print can be used to display HTML markup, javascript, text or variables.

### CODE:

```
<?php
     a = array(array(1,2,3),array(4,5,6),array(7,8,9));
     b = array(array(7,8,9),array(4,5,6),array(1,2,3));
     $m=count($a); 3
     $n=count($a[2]); 3
     $p=count($b);
     $q=count($b[2]);
     echo "The first matrix:"."<br/>";
     for ($row = 0; $row < 3; $row++)
     {
           for ($col = 0; $col < 3; $col++)
           echo " ".$a[$row][$col];
           echo "<br/>";
     }
     echo "The second matrix:"."<br/>";
     for ($row = 0; $row < $p; $row++)
     {
           for ($col = 0; $col < $q; $col++)
           echo " ".$b[$row][$col];
           echo "<br/>";
     }
     echo "The transpose for the first matrix is:"."<br/>";
     for ($row = 0; $row < $m; $row++) row=0 1 2
     {
           for ($col = 0; $col < $n; $col++) col=0,1,2
           echo " ".$a[$col][$row]; a[0][0] a[1][0] a[2][0]
           echo "<br/>";
     }
     echo "The addition of matrices is:"."<br/>";
     for ($row = 0; $row < 3; $row++)
```

```
{
    for ($col = 0; $col < 3; $col++)
    echo " ".$a[$row][$col]+$b[$row][$col]." "; a[0][1]+b[0][1]=1+7=8
    echo "<br/>)";
}
```

# PROGRAM NO.: 11

**AIM:** Develop PHP program to find page HITS (Number of times page visited) and to display the count

## THEORY:

 A session is a way to store information (in variables) to be used across multiple pages.
 Unlike a cookie, the information is not stored on the user's computer.

- A session is started with the session\_start() function.
- Session variables are set with the PHP global variable: \$\_SESSION.

## CODE:

PROGRAM NO.: 12

AIM: Create database using MySQL command to perform manipulation operations

### THEORY:

- A Front-end HTML page is used to collect the details required for inserting into/querying the database.
- PHP \$\_POST is a PHP super global variable which is used to collect

form data after submitting an HTML form with method="post". \$\_POST is also widely used to pass variables.

- The die() is an inbuilt function in PHP. It is used to print message and exit from the current php script.
- The mysqli\_connect() function opens a new connection to the MySQL server.
   The mysqli\_select\_db() function is used to change the default database for the connection.
   The mysqli\_query() function performs a query against a database.
- The mysqli\_fetch\_array() function fetches a result row as an associative array, a numeric array, or both.
- The mysqli\_fetch\_row() function fetches one row from a result-set and returns it as an enumerated array.

```
CODE:
(HTML Page - Front End)
<!DOCTYPE html>
<html>
<body><br/>body bgcolor="aabbcc"></br>
    <h3 style="margin:0px;">Recording a Student's details</h3>
<form action = "insert.php" method = "post">
              Enter Name:
                <input type = "text" name = "sname">
                  Enter Address Line 1:
               <input type = "text" name = "address1">
                                                    Page No: 39
                     Course Code: 20CSL66
```

Enter Address Line 2:

```
<input type = "text" name = "address2">
                   Enter Email-id: 
                 <input type = "text" name = "email">
                   >
                   <input type = "submit" value = "Submit">
                 <input type = "Reset" value = "Reset">
                   </br>
              </form>
         <hr>
         <h3>Searching for a Student's details</h3>
         <form action = "search1.php" method = "post">
              Enter the name to be searched: <input type = "text"
              name = "search"><br/>
              <br/>br/>
              <input type = "submit" value = "Submit">
              <input type = "reset" value = "Reset">
         </form>
         <hr>
   <h3 style="margin-bottom:0px;">Updating a Student's details</h3>
```

```
<form action = "update.php" method = "post">
          Enter the name of the person:
            <input type = "text" name = "sname">
              Enter new Address Line 1:
           <input type = "text" name = "address1">
              Enter new Address Line 2:
           <input type = "text" name = "address2">
              Enter new Email-id: 
            <input type = "text" name = "email">
              <
              <input type = "submit" value = "Submit">
            <input type = "Reset" value = "Reset">
              </br>
          </form>
     <hr>
     <h3>Deleting a Student's details</h3>
     <form action = "delete.php" method = "post">
Enter the name to be deleted: <input type = "text" name ="sname">
```

```
<br/>br/>
               <br/>br/>
               <input type = "submit" value = "Submit">
               <input type = "reset" value = "Reset">
          </form>
</body>
</html>
(Insertion code - insert.php)
<?php
     $sname=$_POST["sname"];
     $address1=$_POST["address1"];
     $address2=$_POST["address2"];
     $email=$_POST["email"];
     $mysql = mysqli_connect("localhost", "root")
          or die("Can't connect to DB");
     mysqli_select_db($mysql, "WFTL_P12")
          or die("Can't select DB");
     mysqli_query($mysql, "insert into student values('$sname','
     $address1',' $address2', '$email')")
          or die("Query failed to insert");
     $result = mysqli_query($mysql,"select * from student");
?>
<html>
<head><title>PHP and MYSQL</title></head>
<body bgcolor="aabbcc">
<h3>Student Details</h3>
Name
Address Line 1
Address Line 2
E-mail ID
               <?php
```

Course Code: 20CSL66

```
while($array=mysqli_fetch_row($result)):
                         echo
                              "
                                $array[0]
                                $array[1]
                                $array[2]
                                $array[3]
                              ";
                    endwhile;
               ?>
<?mysqli_free_result($result);?>
<?mysqli_close($mysql);?>
</body>
</html>
(Search code - search.php)
<html>
<body><br/>body bgcolor="aabbcc"></br/>
<?php
    $search = $_POST["search"];
    $mysql= mysqli_connect("localhost","root") or
    die(mysqli_error());
    mysqli_select_db( $mysql,"WFTL_P12");
    $sql= "select * from student where sname like
    '%$search%' "; $result= mysqli_query($mysql,
    $sql);
    if(mysqli_num_rows($result) == 0)
         echo "<h1> No records found! </h1>";
    else {
          echo "
                    Name
```

Addresss1

```
Addresss2
                      Email ";
         while($row=mysqli_fetch_array($result))
                                                        Page No: 43
                       Course Code: 20CSL66
          {
              echo "";
              echo " $row[sname] ";
              echo " $row[address1] ";
              echo " $row[address2] ";
              echo " $row[email] ";
              echo "";
         }
         echo "";
    }
    mysqli_close($mysql);
?>
</body>
</html>
(Update code - update.php)
<?php
    $sname=$_POST["sname"];
    $address1=$_POST["address1"];
    $address2=$_POST["address2"];
    $email=$_POST["email"];
    $mysql = mysqli_connect("localhost", "root")
         or die("Can't connect to DB");
    mysqli_select_db($mysql, "WFTL_P12")
         or die("Can't select DB");
    $query = "select count(*) from student where sname='$sname'";
    $count= mysqli_query($mysql, $query);
```

```
{
              $query = "update student set address1='$sname',
              address1='$address1', address2='$address2',
              email='$email' where sname='$sname'"
              mysqli_query($mysql, $query);
              echo "<h1> Update successful! </h1>";
                                                                  Page No: 44
                             Course Code: 20CSL66
        }
        else
              echo("<h1> Name not found! </h1>");
   ?>
   (Deletion code - delete.php)
   <?php
        $sname=$_POST["sname"];
        $mysql = mysqli_connect("localhost", "root")
              or die("Can't connect to DB");
        mysqli_select_db($mysql, "WFTL_P12")
              or die("Can't select DB");
        $count= mysqli_query($mysql, "select count(*) from student where
        sname='$sname'"); if (mysqli_fetch_array($count)[0] > 0)
         {
mysqli_query($mysql, "delete from student where sname='$sname'");
              echo "<h1> Delete successful! </h1>";
        }
        else
              echo("<h1> Name not found! </h1>");
   ?>
```

if (mysqli\_fetch\_array(\$count)[0] > 0)

Page No: 45

OUTPUT: On Loading:			

Page No: 46

Course Code: 20CSL66

Course Code: 20CSL66

Before Inserting:

After Inserting:	

Page No: 47

Course Code: 20CSL66

Before Search:

After Search (Successful):	
Arter Search (Successful).	
After Search (Unsuccessful):	
Page No: 48	
Course Code: 20CSL66	

Before Update:

After Update:		$\frac{1}{2}$
Searching the same	name to see if update was successful:	
	name to oce ii apaate was saccessiai.	
Page No: 49		
	Course Code: 20CSL66	
Before Delete:		

itan Dalata.					
ter Delete:					
earching the sar	me name to se	ee if delete w	as successfu	l:	

**RESULT**: An HTML page which is used as the front-end and corresponding PHP pages which are used for the back-end to perform various MySQL database operations was designed and implemented successfully.