Web Design Lab Programs

1. Create a table to show your class time table

```
<html>
<head>TABLE TAG</head>
<title>TABLE</title>
<body>
<style>
table, th, td
{
border: 1px solid black;
border-collapse:collapse;
padding:15px;
}
#t01
{
background-color: #f1f1c1;
}
td{text-align:center;}
</style>
<table id="t01">
<caption><b>AI&DS ONLINE TABLE</b></caption>
<tr>
<th colspan="4">AI&DS</th>
</tr>
<tr>
<th colspan="4">Monday</th>
</tr>
<tr>
<th>9:30-10:20</th>
<th>10:30-11:20</th>
<th>11:30-12:20</th>
<th>12:30-1:20</th>
</tr>
<tr>
<td>P&S</td>
<td>DS</td>
<td>PY</td>
<td>NM</td>
</tr>
</table>
<hr>
<table id="t02">
```

```
<caption><strong>CSE-2 ONLINE TABLE</strong></caption>
<tr>
<th rowspan="4">CSE-2</th>
</tr>
<tr>
<th colspan="4">Monday</th>
</tr>
<tr>
<th>9:30-10:20</th>
<th>10:30-11:20</th>
<th>11:30-12:20</th>
<th>12:30-1:20</th>
</tr>
<tr>
<td>PHY</td>
<td style="background-color: #A52A2A;">DS</td>
<td>P&S</td>
<td>ENG</td>
</tr>
</table>
</body>
</html>
```

2. Use tables to provide layout to your HTML page describing your college infrastructure.

Procedure:

1.Go to start- >all programs-> accessories->notepad
2.Type the html code
3.Use tag to make table
4.Use tag to make table row
5.Use tag for inserting table data
6. Use bgcolor to heading tag to make background color to pink and Use colspan = "2" to make merge of 2 columns.
7. Valign=”top” to make table row data in the top
8.Go to file –>save –>save the file with html extension
9.Run the html file using browser.

Program:

```
<html>
<head>
 <title>AITS COLLEGE INFASTRUCTURE</title>
 </head>
 <body>
 <table width = "100%" border = "0">
 <tr>
```

```
<td colspan = "2" bgcolor = "pink">
<center><h1>UVCE COLLEGE INFASTRUCTURE</center></h1>
</td>
</tr>
<tr valign = "top">
<td bgcolor = "linen" width = "50">
<b>DEPARTMENTS</b><br><br>
1.COMPUTER SCIENCE AND ENGINEERING<br>
2.ELECTRONICS COMMUNICATION AND ENGINEERING<br>
3.CIVIL ENGINEERING<br>
4.MECHANICAL ENGINEERING <br>
5.ELECRICAL ELECTRONICS AND ENGINEERING <br>
</td>
<td bgcolor = "lightblue" width = "100" height = "200">
LABS AND CLASSROOMS
</td>
</tr>
<tr>
<td colspan = "2" bgcolor = "#b5dcb3">
<center>
Department of CSE
</center>
</td>
</tr>
</table>
</body>
</html>
```

3. Use and tags to provide a layout to the above page instead of a table layout.

Procedure:

1. Go to start- >all programs-> accessories->notepad
2. Type the html code
3. tag is an inline container used to mark up a part of a text,
4. we use tag to change the color of the text in the particular position in the program.
5. tag defines a division or a section in an HTML document.
6. With the help of div tag we created class and call the style elements form the head with .(dot) Specifier and class name
7. Add necessary styles in <style> tag that may reflected to class
8. Go to file –>save –>save the file with html extension
9. Run the html file using browser.

Program:

```
<!DOCTYPE html>
<html>
```

```
<head>
<style>
.myDiv {
 border: 5px outset red;
 background-color: lightblue;
 text-align: center;
}
</style>
</head>
<body>
<h1>The div element</h1>
<div class="myDiv">
 <h2>This is a heading in a div element</h2>
 <p>This is some text in a div element.</p>
</div>
<p>My mother has <span style="color:blue;font-weight:bold">blue</span> eyes and my father
has <span
style="color:darkolivegreen;font-weight:bold">dark green</span> eyes.</p>
<p>This is some text outside the div element.</p>
</body>
</html>
```

or

```
<!DOCTYPE html>
<html>
<head>
   <title>University Infrastructure</title>
   <style>
      body {
         font-family: Arial, sans-serif;
         background-color: red;
         margin: 0;
         padding: 0;
      }

      .container {
         width: 80%;
         margin: 0 auto;
         background-color: blue;
         box-shadow: 0 0 10px rgba(0, 0, 0, 0.2);
         border-radius: 10px;
         padding: 20px;
      }
```

```
        .section {
            margin-bottom: 20px;
            padding: 20px;
            background-color: black;
            border: 1px solid yellow;
            border-radius: 5px;
            box-shadow: 0 2px 4px rgba(0, 0, 0, 0.1);
        }

        .heading {
            font-size: 24px;
            font-weight: bold;
            color: green;
            margin-bottom: 10px;
        }

        .description {
            font-size: 16px;
            color: pink;
        }

        .image-container {
            display: flex;
            justify-content: center;
        }

        .image {
            max-width: 100%;
            height: auto;
        }
    </style>
</head>
<body>
    <div class="container">
        <div class="section">
            <span class="heading">Main Campus</span>
            <div class="description">
                The main campus of our university is situated in a beautiful location with
state-of-the-art facilities.
            </div>
            <div class="image-container">
                <img class="image" src="main-campus.jpg" alt="Main Campus">
            </div>
```

```
        </div>

        <div class="section">
            <span class="heading">Library</span>
            <div class="description">
                Our university library is well-equipped with a vast collection of books, journals, and
digital resources.
            </div>
            <div class="image-container">
                <img class="image" src="library.jpg" alt="Library">
            </div>
        </div>

        <div class "section">
            <span class="heading">Laboratories</span>
            <div class="description">
                We have modern laboratories for various disciplines, allowing students to engage in
hands-on experiments.
            </div>
            <div class="image-container">
                <img class="image" src="labs.jpg" alt="Laboratories">
            </div>
        </div>

        <div class="section">
            <span class="heading">Sports Facilities</span>
            <div class="description">
                The university offers a range of sports facilities including a gym, swimming pool, and
outdoor sports fields.
            </div>
            <div class="image-container">
                <img class="image" src="sports.jpg" alt="Sports Facilities">
            </div>
        </div>
    </div>
</body>
</html>
```

4. Use frames such that page is divided into 3 frames 20% on left to show contents of pages, 60% in center to show body of page, remaining on right to show remarks.

Procedure:
1. Create an HTML file with name main-frame.html.

2. Create Frames by using Frameset tag.
3. In Frameset tag create three frames for 1 columns and 2 rows.
4. In the left column frame load html file left-frame.html.
5. In the right column frame load html file right-top-frame.html for the Content.
6. In the right column frame load html file right-bottom-frame.html for the remarks.
7. Close the html file.

Save file as main-frame.html

```
<!DOCTYPE html>
<html>
 <head>
 <title>HTML Frames</title>
 </head>
 <frameset cols="20%,*">
<frame src="left-frame.html">
<frameset rows="60%,*">
<frame src="right-top-frame.html">
<frame src="right-bottom-frame.html">
</frameset>
</frameset>
</html>
```

Save file as left-frame.html

```
<!DOCTYPE html>
<html>
 <head>
 <title>HTML Frames</title>
 </head>
<body>
<h1>CONTENTS</h1>
<ul>
<li>Chapter-1</li>
<li>Chapter-2</li>
<li>Chapter-3</li>
<li>Chapter-4</li>
<li>Chapter-5</li>
<li>Chapter-6</li>
<li>Chapter-7</li>
<li>Chapter-8</li>
<li>Chapter-9</li>
</ul>
</body>
```

Save file as right-top-frame.html

```
<!DOCTYPE html>
<html>
 <head>
 <title>HTML Frames</title>
 </head>
<h1>RIGHT TOP FRAME</h1>
</html>
</html>
```

Save file as right-bottom-frame.html

```
<!DOCTYPE html>
<html>
 <head>
 <title>HTML Frames</title>
 </head>
 <body>
<h1>Bottom Frame</h1>
2018 © UVCE. All rights reserved.
powered by TargetOrate
Privacy Policy Reach Us Terms & Conditions Refund Policy
</body>
</html>
```

6. Develop static pages (using only HTML) of an online book store, the pages should resemble: www.amazon.com, the website should consist the following pages, home page, registration and user login, user profile page, books catalog, shopping cart, payment by credit card, order confirmation.
Home page

Main.html:

```
<html>
<head>
<title>
Amazon</title>
</head>
<body bgcolor="cyan"> <center>
<strong><h1>Welcome to AMAZON</h1></strong>
<form method="post" action="login.html" target=_blank >
<h4>for books</h4><input type="submit" value="click here">
</form>
</center>
```

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

Registration and user Login

Login.html:

```
<html>
<head>
<title>
login</title>
</head>
<body bgcolor="cyan"> <center>
<strong><h1> AMAZON </h1></strong></center>
<right>
<table align="right">
<tr>
<td><h4>user name</td>
<td><input type="text" ></td>
<td></td>
</tr>
<tr>
<td><h4>password</td>
<td><input type="password"></td>
<td></td>
</tr>
<tr>
<td>
<form method="post" action="catalog.html" >
<input type="submit" value="submit" >
</form>
</td>
<td>
<form method="post" action="reg.html" >
<input type="submit" value="register" >
  
<input type="reset" value="reset"></form></td>
</tr>
</table>
</body>
</html>
```

Registration page

reg.html:

```
<html>
<head>
<title>
login page</title>
</head>
<body bgcolor="cyan">
<center><strong><h1> AMAZON </h1></strong></center>
<form method="post" action="catalog.html" >
<right>
<table align="left">
<tr>
<td><h4>user name</td>
<td><input type="text" ></td>
<tr>
<tr>
<td><h4>password</td>
<td><input type="password"></td>
</tr>
<tr>
<td><h4>confirm password</td>
<td><input type="password"></td>
</tr>
<tr>
<td><h4>male   
<option >
<input type="radio" name="sex" id="male"></td>
<td><h4>female    
<input type="radio" name="sex" id="female" ></td>
</option>
</tr>
<tr>
<td>Address</td>
<td><textarea name="address" rows=5 cols=19>
</textarea>
</td>
<tr>
<td>
<input type="submit" value="submit" ></td>
<td>
<input type="reset" value="reset"></td>
</tr>
</form>
</body>
```

```
</html>
```

Userprofile

userprofile.html

```
<html>
<head>
<title>
userprofile</title>
</head>
<body bgcolor="cyan"> <center>
<strong><h1>Welcome to AMAZON Online Book Store </h1></strong></center>
Edit your profile here...
<form method="post" action="catalog.html" >
<right>
<table align="left">
<tr>
<td><h4>Edit user name</td>
<td><input type="text" ></td>
<tr>
<tr>
<td><h4>Edit password</td>
<td><input type="password"></td>
</tr>
<tr>
<option >
<td><h4>male   
<input type="radio" name="sex" id="male"></td>
<td><h4>female    
<input type="radio" name="sex" id="female" ></td>
</option>
</tr>
<tr>
<td>Edit Address</td>
<td><textarea name="address" rows=5 cols=19>
</textarea>
</td>
<tr>
<td>
<input type="submit" value="submit" ></td>
</tr>
</form>
</body>
</html>
```

Books catalog
Catalog.html:

```
<html>
<head>
<title>
books catalog</title>
</head>
<body bgcolor="cyan">
<center><h1>AMAZON</h1></center>
<form method="post" action="shopping.html">
<left>
<table>
<tr>
<td><b><h3>frontend books</td>
<td></td></tr>
<tr>
<td></td>
<td><h4>C&Ds</td>
</tr>
<tr>
<td></td>
<td><h4>Ads</td>
</tr>
<tr>
<td></td>
<td><h4>JAVA
</td></tr>
<tr>
<td><b><h3>backend books</td>
<td></td>
</tr>
<tr>
<td></td>
<td><h4>Oracle</td>
</tr>
<tr>
<td></td>
<td><h4>Ms SQL Server
</td></tr>
<tr>
<td></td>
<td><h4>MySql </td>
```

```
</tr>
</table>
</h4>
<center>
<b>for buy one of these books
<br>
</b><input type="submit" value="click here">
</center>
</form>
</body>
</html>
```

Shopping cart

Shopping.html:

```
<html>
<head><title>shopping cart</title>
</head>
<body bgcolor="cyan">
<center><h1>
Shopping Cart</h1></center>
<br><br><br><br><br>
<table align="center">
<tr>
<td>Text Books</td>
<td>
<select >
<optgroup label="select the book">
<option value="C&Ds">C&Ds
<option value="Ads">Ads
<option value="Java">Java
<option value="Oracle">Oracle
<option value="Ms SQL Server">Ms SQL Server
<option value="MySql">MySql
</optgroup>
</select>
</td></tr>
<tr>
<td>
Quantity</td>
<td>
<input type="text" id="q">
</td></tr>
<tr>
```

```
<td></td>
<td>
<form method=post action="payment.html">
<input type="submit" value=ok />
</form>
</td></tr>
</table>
<center>
<pre>Cost of one book is"500" + shipping "100"</pre>
</center>
<body>
</html>
```

Payment by credit card

Payment.html:

```
<html>
<head><title>payment</title></head>
<body bgcolor="cyan">
<center><h1>Payment By Credit Card</h1></center>
<form method=post action="ordrconform.html">
<br><br><br><br><br>
<table align="center">
<tr>
<td>
<h4>Total Amount</h4></td>
<td><input type="text">
</td>
</tr>
<tr>
<td><h4>Credit Card Number</td>
<td><input type="text"></td>
</tr>
<tr>
<td>
</td>
<td><input type="submit" value=OK>
</td>
</tr>
</table>
</form></body>
</html>
```

Order Conformation

Ordrconform:

```
<html>
<head><title>order conformation</title><M/head>
<body bgcolor="cyan">
<center>
<h1><b>BOOK SHOPPING</h1>
<pre><strong>
<b>Your order Is Conformed
</strong></pre>
<h2><b>THANK YOU</h2>
</center>
</body></html>
```

8. Write an HTML page that contains a selection box with a list of 5 countries, when the user selects a country, its capital should be printed next to the list; Add CSS to customize the properties of the font of the capital (color, bold and font size).

```
<html>
<head>
<title>capitals of countries</title>
<style>
p{
color:red;
font-weight:bold;
font-size:50;
}
</style>
<script language="javascript">
function capital()
{
var cunt=document.forms["frm1"].country.value;
var capital=" Please select any country ";
if( cunt=="india")
{
capital="NEW DELHI";
}
if( cunt=="china")
{
capital="BEIJING";
}
if( cunt=="pakistan")
{
```

```
capital="ISLAMABAD";
}
if( cunt=="bangladesh")
{
capital="DHAKA";
}
if( cunt=="japan")
{
capital="TOKYO";
}

if( cunt=="select")
{
capital="Please select any country";
}
document.getElementById("capt").innerHTML=capital;
}
</script>
</head>
<body>
<form name="frm1">
<br/>
<center>
Select a Country : <select name="country" onchange="capital()">
<option value="select">--SELECT--</option>
<option value="india">INDIA</option>
<option value="china">CHINA</option>
<option value="pakistan">PAKISTAN</option>
<option value="bangladesh">BANGLADESH</option>
<option value="japan">JAPAN</option>
</select>
<br/>
<br/>
<font color="green" size="6">Capital is :</font> <p id="capt"></p>
</center>
</form>
</body>
</html>
```

8.Write a java script program to test the first character of a string is uppercase or not. b. Write a pattern that matches e-mail addresses. c. Write a java script function to print an integer with commas as thousands separators.

a.

```
<!DOCTYPE html>
<html>
<head>
   <title>Check First Character</title>
</head>
<body>
   <script>
      function isFirstCharUpperCase(inputString) {
         if (typeof inputString !== 'string' || inputString.length === 0) {
            return false;
         }

         const firstChar = inputString.charAt(0);
         return firstChar === firstChar.toUpperCase();
      }

      const userString = prompt("Enter a string:"); // Prompt the user for input

      const result = isFirstCharUpperCase(userString);

      if (result) {
         document.write(`The first character of "${userString}" is uppercase.`);
      } else {
         document.write(`The first character of "${userString}" is not uppercase.`);
      }
   </script>
</body>
</html>
```

b.

```
<!DOCTYPE html>
<html>
<head>
   <title>Email Validation</title>
</head>
<body>
   <h1>Email Validation</h1>
   <p id="output"></p>

   <script>
      const emailPattern = /^[a-zA-Z0-9._%+-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}$/;

      const userEnteredEmail = prompt("Enter an email address:"); // Prompt the user for input
```

```
        const isValidEmail = emailPattern.test(userEnteredEmail);

        const outputElement = document.getElementById('output');
        outputElement.innerHTML = `Is "${userEnteredEmail}" a valid email address?
${isValidEmail}`;
    </script>
</body>
</html>
```

9. A simple calculator web application that takes two numbers and an operator (+, ,/,*and %) from an HTML page and returns the result page with the operation performed on the operands. b. Write PHP program how to send mail using PHP.

a.

```
<!DOCTYPE html>
<html>
<head>
    <title>Simple Calculator</title>
</head>
<body>
    <h1>Simple Calculator</h1>
    <input type="number" id="num1" placeholder="Enter number 1">
    <select id="operator">
        <option value="+">+</option>
        <option value="-">-</option>
        <option value="*">*</option>
        <option value="/">/</option>
        <option value="%">%</option>
    </select>
    <input type="number" id="num2" placeholder="Enter number 2">
    <button onclick="calculate()">Calculate</button>
    <p id="result">Result: </p>

    <script>
        function calculate() {
            const num1 = parseFloat(document.getElementById('num1').value);
            const num2 = parseFloat(document.getElementById('num2').value);
            const operator = document.getElementById('operator').value;

            let result;

            if (isNaN(num1) || isNaN(num2)) {
                result = 'Invalid input';
            } else {
```

```
            switch (operator) {
                case '+':
                    result = num1 + num2;
                    break;
                case '-':
                    result = num1 - num2;
                    break;
                case '*':
                    result = num1 * num2;
                    break;
                case '/':
                    result = num1 / num2;
                    break;
                case '%':
                    result = num1 % num2;
                    break;
                default:
                    result = 'Invalid operator';
                    break;
            }
        }

        document.getElementById('result').textContent = `Result: ${result}`;
    }
  </script>
</body>
</html>
```

b.

```
<?php
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $to = "recipient@example.com"; // Replace with the recipient's email address
    $subject = "Test Email";
    $message = "This is a test email sent from a PHP script.";
    $headers = "From: sender@example.com"; // Replace with the sender's email address

    if (mail($to, $subject, $message, $headers)) {
        echo "Email sent successfully!";
    } else {
        echo "Email sending failed.";
    }
}
?>
```

```
<!DOCTYPE html>
<html>
<head>
   <title>Send Email</title>
</head>
<body>
   <h1>Send Email</h1>
   <form method="post">
      <input type="submit" value="Send Email">
   </form>
</body>
</html>
```