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NAME : STD : SEC : ROLL NO :

sample 7/01

WEB TECHNOLOGY

web technology refers to the means by which computers communicate with each other using markup language and multimedia.

11/3/24

1) a) TEXT FORMATTING

AIM:

To write a HTML program to perform the text formatting.

Program:

```
<html>
  <head>
    <title> Text formatting using CSS </title>
    <style>
      body {
        color: Blue;
      }
      h1 {
        color: red;
        text-align: center;
        background-color: lavender;
        padding: 10px;
      }
    </style>
  </head>
  <body>
    <h1> Web Technology </h1>
    <center> <p> Web technology refers to the means by which computers communicate with each other using markup languages and multimedia packages </p>
    </p> </center>
  </body>
</html>
```

Result:

Thus the HTML program for text formatting has been executed and verified successfully.

Sample #0:

LINKING WEBSITES

visit our HTML tutorial

<html> <body> click here </body> </html>

<u href="http://www.w3schools.com/html/html_intro.asp">

click here

:link { color: red; }

:link:visited { color: green; }

:link:active { color: blue; }

:link:hover { color: purple; }

<u href="#">

<u href="#">

<u href="#">

<u href="#">

create a new page with <u href="#">

with this new page click here to open this file

<u href="#"> click here to open this file

<u href="#">

<u href="#">

<u href="#">

if you click here it will open this file

1(b) LINKING

AIM:

To write an HTML program for creating a link between to open another page like a website and display them.

Program :

```
<html>
  <head>
    <title> Linking </title>
    <style> h1 { background-color: aqua; }
            p { background-color: silver; }
    </style>
  </head>
  <body>
    <center> <h1>Linking Websites </h1>
      <a href = " https://www.w3schools.com/html "
         target = "_blank" > Visit our HTML tutorial </a>
      <p> </center>
    </body>
</html>
```

Result

Thus the HTML program for creating a link to open another page has been executed and verified successfully.

10 C. Embedding an Image

AIM :

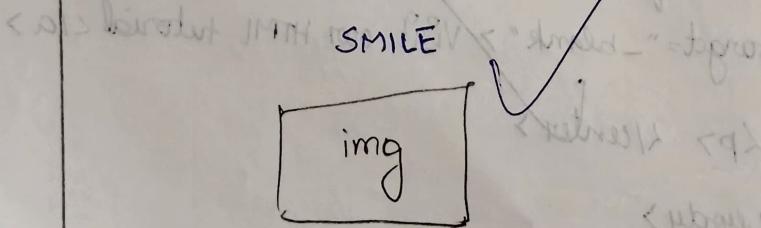
To write an HTML program to perform embedding an image in a HTML file and to display it on the web page.

Program :

```
<html>
<head>
<title> Embedded image </title>
<style> h2 {background-color: aqua;}
         {</style>
<head> <body>
<center> <h2> SMILE </h2>

</img>
<center> </body>
</html>
```

Sample I/O:



Result :

Thus the HTML program for embedding an image has been executed and verified successfully.

1) d) Table Creation

AIM:

To write a HTML program for creating a table and its display it on the webpage.

Program :

```
<html>
<head>
<title>Table creation </title>
<style>
table, th, td {
    border: 1px solid black;
}
</style>
</head>
<body> <center> <h1>Timetable</h1> </center>
<table style="width:100%;">
<tr><th> Days / periods </th>
<th> 1st </th>
<th> 2nd </th>
<th> 3rd </th>
<th> 4th 4th </th>
<th> 5th </th>
</tr>
<tr>
<th> Monday </th>
<th> 1st </th>
<th> 2nd </th>
<th> 3rd </th>
<th> 4th 4th </th>
<th> 5th </th>
</tr>
<tr>
<th> Tuesday </th>
<th> 1st </th>
<th> 2nd </th>
<th> 3rd </th>
<th> 4th 4th </th>
<th> 5th </th>
</tr>
<tr>
<th> Wednesday </th>
<th> 1st </th>
<th> 2nd </th>
<th> 3rd </th>
<th> 4th 4th </th>
<th> 5th </th>
</tr>
<tr>
<th> Thursday </th>
<th> 1st </th>
<th> 2nd </th>
<th> 3rd </th>
<th> 4th 4th </th>
<th> 5th </th>
</tr>
<tr>
<th> Friday </th>
<th> 1st </th>
<th> 2nd </th>
<th> 3rd </th>
<th> 4th 4th </th>
<th> 5th </th>
</tr>
<tr>
<th> Saturday </th>
<th> 1st </th>
<th> 2nd </th>
<th> 3rd </th>
<th> 4th 4th </th>
<th> 5th </th>
</tr>
<tr>
<th> Sunday </th>
<th> 1st </th>
<th> 2nd </th>
<th> 3rd </th>
<th> 4th 4th </th>
<th> 5th </th>
</tr>
</table>
</body>
```

<tr>

<th> Tuesday </th>

<th> CN

</th>

<th> CA

</th>

<th> ICT

</th>

<th> SE

</th>

<tr>

<tr>

<th> Friday </th>

bt, nt, oldt

<th>

<th> ICT

</th>

<th>

SE

</th>

<th> CN

</th>

<th>

CA

</th>

</tr>

</table>

</body>

</html>

Sample I/O:

Days/period	1st	2nd	3rd	4th	5th
Monday	IC	WT	CC	CN	DB
Tuesday	CN	CA	SE	ICT	DB
Wednesday	SE	ICT	DB	SE	CC
Thursday	CN	CA	ICT	SE	DOAD

Result :

Thus the HTML program for creating a frame with image and a table to display it on the web page.

1.e. Frames

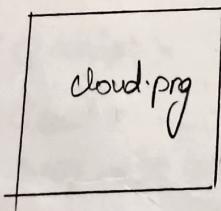
Aim:

To write a HTML program for creating a frame with image and a table and to display it on the web page.

program :

```
<html>
<head>
<title> FRAMES </title>
</head>
<frameset cols="70%, 90%.">
  <frame src="iclouds.PNG" />
  <frame src="tablecreation.html" />
</frameset>
</html>
```

sample I/O :



Time table					

Result :

Thus the HTML program for creating the files and frames has been executed and verified successfully.

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20° DATE AND TIME

AIM:

To write a JS program to illustrate the current date and time.

PROGRAMS :

```
<html>
<head>
    <title> Date and time </title>
</head>
<body>
    <center><h1><font color="blue"> Date and time </h1>
    <button type="button" onclick="document.getElementById('demo').innerHTML = date()">
        <font color="black"> Click here </button>
    <p id="demo"> </p> <center>
</body>
</html>
```

Sample I/O:

Date and Time

click here
Fri Feb 03 2024 07:32:00 GMT+0530 (IST)

Result:

Thus the JS program for current date and time to display on the webpage has been executed and verified.

2b. Quadratic equation.

AIM:

To write a HTML program to find the root value for the quadratic equation using javascript.

Program :

```
<html>
<title> quadratic equations </title>
<head>
<script type = "text/javascript">
function Roots()
{
    var a = prompt ("Enter value of a", "-1");
    var b = prompt ("Enter value of b", "-1");
    var c = prompt ("Enter value of c", "4");
    var root - part = Math.sqrt (b*b + a*c);
    var denom = 2*a;
    var root1 = (-b + root - part) / denom;
    var root2 = (-b - root - part) / denom;
    document.write ("1st root " + root1 + "<br>");
    document.write ("2nd root " + root2 + "<br>");
}
</script>
<head>
<body> To calculate quadratic equation <h1>
<input type = "button" onclick = "Roots()" value = "Root calculator">
</body>
</html>
```

output:

To calculate quadratic equation

Root calculator

Result :

Thus, the JS code to calculate roots is
programmed and verified.

2C. String Concatenation

AIM :

To write a JS program to illustrate string concatenation for the given strings.

Program :

<html>

<head> <title> String Concatenation </title>

<script type = "text/javascript">

function conc()

```
{ var str1 = document.getElementById ("S1").value;  
var str2 = document.getElementById ("S2").value;  
var res = str1 + str2;  
document.getElementById ("result").innerHTML = res;  
text : "+res;  
}</script>  
</head> <body>  
<div> <form>  
<center> <h1>String Concatenation </h1> <center>  
<label for = "S1"> String 1</label> <input type = "text" id = "S1" />  
<label for = "S2"> String 2</label> <input type = "text" id = "S2" />  
<input type = "button" onclick = "conc()" value = "Concatenate" />  
</form>  
<p id = "result" class = "result" ></p> </center>  
</div> </body> </html>
```

Sample I/O :

String Concatenation

String 1 [HOME]
String 2 [maker]

Result : homemaker

[concatenate]

Result : Thus the JS program for string concatenation is executed and verified.

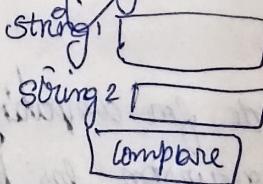
2d. String Comparison

AIM:

To write a JS program to illustrate string comparison for the given strings.

Program :

```
<html>
<head>
<title> String Comparison </title>
<script type="text/javascript">
function len()
{
    var str1 = document.getElementById("S1").value;
    var str2 = document.getElementById("S2").value;
    var res = str1.localeCompare(str2);
    console.log(str1, str2, res);
    if (str1 === "" || str2 === "") {
        alert("Enter some text");
    } else if (res == 0) {
        document.getElementById("Result").innerHTML =
            "is same as " + str2;
        cleanText();
    } else if (res == -1) {
        document.getElementById("Result").innerHTML =
            str1 + " is sorted before " + str2;
        cleanText();
    }
    </head> </html>
sample I/O: String Comparison
```



Result:

Thus the JS program to compare two strings is executed and verified.

2e • factorial using recursive method.

AIM:

To write a JS code to illustrate the factorial of a number using recursive method.

Program:

html >

<head> <title> factorial </title>

</head> <body>

<script type = "text/javascript">

```
var n = parseInt(prompt("Enter the number:"));
```

```
var result = fact(n);
```

```
window.alert ("Factorial " + the given number " + result);
```

```
function fact(n)
```

```
{ if (n == 0)
```

```
    return 1;
```

```
else
```

```
    return (n * fact(n-1));
```

</script>

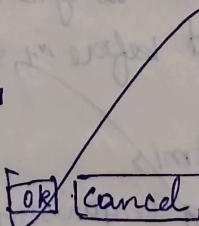
</body>

</html>

Sample I/O:

Enter the number

5



Result:

Thus the JS code for computing factorial of a number using recursion has been executed and verified successfully.

2F. Fibonacci Series using Recursive Method

AIM :

To write a JS code to generate fibonacci series of a given number upto n terms using recursion.

Program :

```
<html> <head>
  <title> Fibonacci Series using Recursion </title>
  </head> <body style="text-align: center;">
<script>
  var num = parseInt(window.prompt("enter the number"));
  function recur(num)
  {
    if (num == 1)
      return [0, 1];
    else
      total = recur(num - 1);
      total.push(total[total.length - 1] + total[total.length - 2]);
    return total;
  }
  document.write("Fibonacci series : " + recur(num));
</script> </body> </html>
```

Sample I/O :

Fibonacci Series

Series : 0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55

Result :

Thus the JavaScript code to calculate fibonacci series upto n terms has been executed and verified successfully.

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3a. Data Accessing

AIM:

To write a code to access the data from the database and view it on the HTML web page.

Program :

```
<!DOCTYPE html>
<html lang = "en">
<head>
    <meta charset = "UTF-8">
    <meta http-equiv = "X-UA-Compatible" >
<body>
    <center>
        <h1>Welcome to Book Store</h1>
        <h3>Enter ISBN number (h3) </center><br/>
<%php
    $conn = new mysqli ("localhost", "root", "ThamU1611", "data");
    if ($conn->connect_error)
        die("Connection failed: " . $conn->connect_error);
    $name = $_POST['search'];
    $sql = "Select * from Bookstore where ISBN = '$name'";
    $result = $conn->query($sql);
    if ($result->num_rows > 0)
        echo "<table border=1>
            <tr>
                <td>" . $row[0]['ISBN'] . "<td>
                <td>" . $row[0]['Book Name'] . "<td>
                <td>" . $row[0]['Authors'] . "<td>
            </tr>";
    <%php
        $row = $result->fetch_assoc();
    <%endphp
}>
```

```
else {
    echo '0 results';
}
echo "</tbody>
</table>
</html>"
```

SQL file:

Create database data;

```
use data;
```

Create table 'bookstore' (

```
    'ISBN' varchar(20), 'Bookname' varchar(45), Authors (45));
```

Insert into 'data'.'bookstore' [ISBN, Bookname, Authors]
values ['A101', 'A Worst life', 'hanya']

sample I/O:

Welcome to Book Store

Enter ISBN number

A101	Search
------	--------

ISBN Bookname Authors

A101 A worst life hanya

Result:

Thus the given code to access the data from the database stored in MySQL is executed and viewed successfully.

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22/4/24

3b. Session Creation

AIM :

To write a code to illustrate the concept of the session creation and to view data.

Program :

Session creation.php

```
<?php  
session_start();  
?>  
<!DOCTYPE html>  
<html><body>  
<?php  
$_SESSION['name'] = "V. Shalini";  
$_SESSION['regno'] = "21IT1048";  
echo "Session Variables are Set";  
?> <form action = "sessionview.php">  
    <input type = "Submit" value = "Session variables">  
</form>  
</body> </html>
```

Session view.php

```
<?php  
session_start();  
?> <!DOCTYPE html>  
<html><body>  
<?php echo "Name : " . $_SESSION['name'] . "<br>";  
echo "Register number : " . $_SESSION['regno'] . "<br>";  
?> </body> </html>
```

Sample I/o:

Session Variables are set

See session variables

Name of the student: Shalini

Register Number: 21IT1048

Result :

Thus the given code to implement session creation has been executed and verified successfully.

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3C. AJAX PROGRAMMING

AIM 8

To write a code to implement AJAX programming and its execute it.

Program :

index.php:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title> Ajax Save Data </title>
    <style> </style>
<body>
    <form class="formstyle">
        <input type="text" name="name" value="John" />
        <input type="text" name="city" value="London" />
        <input type="button" value="Submit" />
    </form>
<script>
    function saveData() {
        if (window.XMLHttpRequest) {
            var a = new XMLHttpRequest();
        } else {
            var a = new ActiveXObject("Microsoft.XMLHTTP");
        }
        a.onreadystatechange = function() {
            if (a.readyState == 4 & a.status == 200) {
                alert(a.responseText);
            }
        }
        var url = "save.php";
        var val = "name=" + name + "&city=" + city;
        a.open("POST", url, true);
        a.setRequestHeader("Content-type", val.length);
        a.setRequestHeader("Connection", "close");
        a.send(val);
    }
</script>
</body>
</html>
```

save.php :

```
<?php  
$con = mysqli_connect("localhost", "root", "Shalu1414", "data");  
$name = $_POST["name"];  
$city = $_POST["city"];  
$sql = "insert into users(name, city) values  
('{$name}', '{$city}')";  
if ($con->query($sql))  
    echo "data saved";  
else  
    echo "error";  
?>
```

SQL query :

Create database Data;

Use Data;

Create table users {

Name varchar(50),

City varchar(300)

};

sample I/O :

Name

City

Name City

Shalu Pondy

null null

Result :

Thus the AJAX programming in a HTML page to store data entered in the form is stored in the backed database is executed and verified successfully.

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