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Name of the Experiment: Creating text boxes, Radio buttons

Practical No.: 1

Aim:

Create a Form with the elements of Textboxes, Radio buttons, check boxes , and so on. Write javascript code to validate the format in email , and mobile number in 10 characters , if a textbox has been left empty , pop up and alert indicating when email, mobile number and text box has been left empty.

Name of the Experiment :

Practical No.:

Procedure:

Step:1 Open the note pad

Step:2 Enter the source code in it.

Step:3 After enter the source code save
filename.html

Step:4 Open the program with internet browser

Step:5 It shows the output on window.

Name of the Experiment :

Source code:

```

<!xml version="1.0" encoding="utf-8"?>
<!DOCTYPE html>
<head>
<title> Validate Text Boxes </title>
<script type="text/javascript">
function check()
{
    var myArray = new Array();
    for (var i = 0; i < document.myForm.length; i++)
    {
        if (document.myForm.elements[i].value.length == 0)
        {
            myArray.push(document.myForm.elements[i].name);
        }
    }
    if (myArray.length != 0)
    {
        alert("The Following Text Boxes are Empty : " + myArray);
        return false;
    }
    else
    {
        validate Email();
        validate Phone Number();
    }
}

```

```
return false;
```

}

```
function validateEmail () {
```

```
var email = document.getElementById("email").value;
```

```
var pattern1 = /^[^@\s]+@[^\s@]+\.\[^@\s]+\$/;
```

```
isValid = pattern1.test(email);
```

```
if (isValid) {
```

```
document.getElementById("result1").innerHTML += "Email is valid.";
```

```
} else {
```

```
document.getElementById("result1").innerHTML += "Email is invalid.";
```

}

}

```
function validatePhoneNumber() {
```

```
var ph_number = document.getElementById("ph_no").value;
```

```
if (ph_number.length == 10)
```

{

```
document.getElementById("result2").innerHTML += "Phone number is valid.";
```

}

```
else
```

{

```
document.getElementById("result2").innerHTML += "Phone number is invalid.";
```

}

Name of the Experiment :

3

</script>

</head>

<body>

<form name="myForm" onsubmit="return check1()">
 Email: <input type="text" id="email" name="Email" />
 phone_number: <input type="text" id="ph-no" name="phone-number" />
 Age: <input type="text" name="Age" />

<input type="submit" value="Send message" />

</form>

<p id="result 1"></p>

<p id="result 2"></p>

</body>

</html>

Page No.: 6

Date:

Practical No.:

Name of the Experiment :

Output.

Aim:

Develop a HTML Form, which accepts any mathematical expression. write JavaScript code to Evaluate the expression and Displays the result.

Page No.: 8

Date:

Name of the Experiment :

Practical No.:

Procedure:

Step: 1 Open the note Pad

Step: 2 Enter the source code in it

Step: 3 After enter the source code save
File name .htm)

Step: 4 Open the program with Internet browser.

Step: 5 It shows the output on window.

Source code:

```

<!xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE html>
<html xmlns="https://www.w3.org/1999/xhtml">
<head>
<meta charset="UTF-8"/>
<title>Expression Evaluation</title>
<script type="text/javascript">
function Evaluate()
{
    var enteredExpr = document.getElementById("expr").value;
    document.getElementById("result").value = eval(enteredExpr);
}
</script>
</head>
<body>
<form name="my Form">
    Enter any valid expression: <input type="text" id="expr"/>br/>br/>
    <input type="button" value="Evaluate" onclick="Evaluate()"/>br/>br/>
    Result of expression: <input type="text" id="result"/>br/>br/>
</form>

```

Page No.: 10

Date:

Practical No.:

Name of the Experiment :

L1 Form>

L1 body>

L1 batm1>

Output:

Name of the Experiment: Dynamic Effects

Page No.: 11

Date: 5-2-25

Practical No.: 3

Aim:

Create a page with dynamic effects. Write the code to include layers and basic animation.

Name of the Experiment :

Procedure.

Step:1 Open the note Pad

Step:2 Enter the source code in it.

Step:3 After enter the source code
filename.htm)

Step:4 Open the program with Internet browser

Step:5 It shows the output on window.

Name of the Experiment :

Source code:

```

<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE html>
<html xmlns="https://www.w3.org/1999/xhtml">
<head>
<title>Basic Animation </title>
<style>
#layer1 {position: absolute; top: 50px; left: 50px;}
#layer2 {position: absolute; top: 50px; left: 200px;}
#layer3 {position: absolute; top: 50px; left: 800px;}
</style>
<script type="text/javascript">
function moveimage(layer)
{
    var top = window.prompt ("Enter top value");
    var left = window.prompt ("Enter left value");
    document.getElementById(layer).style.top = top + 'px';
    document.getElementById(layer).style.left = left + 'px';
}
</script>

```

Name of the Experiment :

</head>

<body>

```
<div id="layer1"></div>
```

```
<div id="layer2"></div>
```

```
<div id="layer3"></div>
```

</body>

</html>

Page No.: 15

Date:

Practical No.:

Name of the Experiment :

Output:

Aim:

Write a Java script code to find the sum
of N natural numbers.

Procedure:

Step: 1

Open the note Pad

Step: 2

Enter the source code in it.

After enter the source code save
filename.htm

Step: 4

Open the program with Internet
browser

Step: 5

It shows the output on window

Name of the Experiment :

Source code:

```
<html>
<head>
<title>JavaScript program to find the sum of natural
numbers </title>
</head>
<body>
<table>
<tr>
<td><input type="text" name="a" id="first" placeholder=
"Enter a number" /></td>
</tr>
<tr>
<td><button onclick="sum()">Submit </button></td>
</tr>
</table>
<div id="num"></div>
</body>

<script type="text/javascript">
Function sum()
{
    var n, i, sum = 0;
```

```
n = parseInt (document.getElementById ("first").value);  
for (i=1; i<n; i++)
```

{

```
    sum = sum + i;
```

}

```
document.getElementById ("num").innerHTML = "Sum of " + n +  
    " natural numbers is :" + sum;
```

}

```
</script>
```

```
</html>
```

Page No.: 20

Date:

Practical No.:

Name of the Experiment :

~~Sound &~~

Output:

Page No.: 21

Date: 19-2-25

Practical No.: 5

Name of the Experiment: Current Date

Aim:

Write a JavaScript code block using arrays and generate the current date in words, this should include the day, month and year.

Page No.: 22

Date:

Practical No.:

Name of the Experiment :

Procedure:

Step 1: Open the note Pad

Step 2: Enter the source code init.

Step 3: After enter the source code save

Filename.html

Step 4: Open the program with Internet browser.

Step 5: It shows the output on window.

Name of the Experiment:

Source Code:

```

<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<title>Date Display</title>
<script type="text/javascript">

    var days = ["First", "Second", "Third", "Fourth", "Fifth",
    "Sixth", "Seventh", "Eighth", "Ninth", "Tenth", "Eleventh", "Twelfth",
    "Thirteenth", "Fourteenth", "Fifteenth", "Seventeenth",
    "Eighteenth", "Nineteenth", "Twentyeth", "TwentyFirst",
    "TwentySecond", "TwentyThird", "TwentyFourth", "TwentyFifth",
    "TwentySixth", "TwentySeventh", "TwentyEighth", "TwentyNinth",
    "Thirtyeth", "ThirtyFirst"];

    var months = ["January", "February", "March", "April",
    "May", "June", "July", "August", "September", "October",
    "November", "December"];

```

```

Var year = "Two Thousand Twenty Three";
Var dateObj = new Date();
Var currMonth = dateObj.getMonth();
Var currDate = dateObj.getDate();
Var currYear = dateObj.getFullYear();

if (currYear == 2023)
    alert ("Today's Date is :" + days[currDate - 1] + "/" +
           months[currMonth] + "/" + year);
else
    alert ("Today's Date is :" + days[currDate - 1] + "/" + months
           [currMonth] + "/" + currYear);

<script>
</head>
<body>
</body>
</html>

```

Page No.: 25

Date:

Name of the Experiment :

Practical No.:

Output:

Page No.: 26

Date: 25-2-25

Name of the Experiment: Creating Student information

Practical No.: 6

AIM:

Create a Form For student information. Write Java
Script code to Find Total, Avg, Result and Grade.

Procedure:

Step: 1 Open the note Pad

Step: 2 Enter the source code in it.

Step: 3 After enter the source code save
Filename.html

Step: 4 Open the Program with internet browser

Step: 5 It shows the output on window.

Source codes

```

<!xm! version="1.0" encoding="UTF-8"?>
<!DOCTYPE html>
<html> xmlns="https://www.w3.org/1999/xhtml">
<head>
<title> Student Data Example </title>
<script type="text/javascript">
    Function showResult()
{
    var name = document.getElementById("name").value;
    var clss = document.getElementById("class").value;
    var marks1 = parseInt(document.getElementById("sub1").value);
    var marks2 = parseInt(document.getElementById("sub2").value);
    var marks3 = parseInt(document.getElementById("sub3").value);
    var total = marks1 + marks2 + marks3;
    var avg = total / 3;
    var grade, result;
    if (avg >= 60)
    {
        grade = "A";
        result = "First class";
    }
}

```

else if (avg < 60 && avg >= 50)

{

 grade = "B";

 result = "Second Class";

}

else if (avg < 50 && avg >= 40)

{

 grade = "C";

 result = "Third Class";

}

else

{

 grade = "D";

 result = "Fail";

}

document.write("<h2>Results </h2>");

document.write("Name:" + name + "
");

document.write("Class:" + class + "
");

document.write("Total Marks:" + total + "
");

document.write("Average:" + avg + "
");

document.write("Grade:" + grade + "
");

Name of the Experiment :

```
document.write("<b>Result:<br></b><br/>");
```

3

```
<script>
```

```
<head>
```

```
<body>
```

```
<form>
```

```
<table border="5">
```

```
<tr>
```

```
    <th align="center" colspan="2">Student Details</th>
```

```
<tr>
```

```
<td>
```

```
<td> Student Name: </td>
```

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

```
</td>
```

```
<td>
```

```
<td> Student Class : </td>
```

```
    <td><input type="text" id="class"/></td>
```

```
</td>
```

```
<td>
```

Name of the Experiment :

<td> student Marks 1 : </td>

<td><input type = "number" id = "sub1" /></td>

</td>

<td>

<td> student Marks 2: </td>

<td><input type = "number" id = "sub2" /></td>

</td>

<td>

<td> student Marks 3: </td>

<td><input type = "number" id = "sub3" /></td>

</td>

</table>

<input type = "button" value = "View Results" onclick =
"showResult()" />

</Form>

</body>

</html>

Name of the Experiment :

Page No.: 82

Date:

Practical No.:

Output:

Name of the Experiment: Employee Information

Practical No.: 7

Aim:

Create a Form for Employee information. Write Java Script code to find DA, HRA, PF, TAX, Gross Pay, Deduction and Net Pay.

Procedure:

Step:1

Open the note pad

Step:2

Enter the source code in it.

Step:3

After enter the source code save
File name- html

Step:4

Open the program with Internet browser.

Step:5

It shows the output on window

Name of the Experiment :

Source Codes

```

<! XML version="1.0" encoding="utf-8"?>
<!DOCTYPE html>
<html xmlns="https://www.w3.org/1999/xhtml">
<head>
<title>Employee Salary Details </title>
<script type="text/javascript">
function showSalary()
{
    var cmpname = document.getElementById("cmpname").value;
    var empno = document.getElementById("empno").value;
    var basic = parseInt(document.getElementById("basic").value);
    var da = basic * 0.4;
    var daa = basic * 0.6;
    var gross = basic + da + daa;
    var pf = gross * 0.13;
    var tax = gross * 0.2;
    var deductions = pf + tax;
    var net_salary = gross - deductions;
    document.writeln("<table border='1'>");
    document.writeln("<tr><th>Employee Salary Details <th></th></tr>");

```

Name of the Experiment :

```
document.write("<tr><td>Deductions: </td><td>" + deductions
+ "</td></tr>");
```

```
document.write("<tr><td>Net salary: </td><td>" + netSalary
+ "</td></tr>");
```

3

<script>

</head>

<body>

<form>

<table border="1">

<tr>

<th>Employee Details </th>

</tr>

<tr>

<th>EmployeeNo: </th>

<td><input type="text" id="empno" /></td>

</tr>

<tr>

<th>Basic Pay: </th>

<td><input type="number" id="basic" /></td>

</tr>

</table>

</Form>

</body>

</html>

Page No.: 37

Date:

Practical No.:

Name of the Experiment :

Output:

Name of the Experiment : HTML 5 SVG

Page No.: 38

Date: 11-3-25

Practical No.: 8

Aim:

Drawing a square using HTML 5 SVG , fill the square with green colour and making 6px brown stroke width.

Page No.: 39

Date:

Practical No.:

Name of the Experiment :

Procedure:

- Step:1 Open the note Pad
- Step:2 Enter the source code in it.
- Step:3 After enter the source code save
filename.html.
- Step:4 Open the program with Internet browser
- Step:5 It shows the output on window.

Name of the Experiment :

Source code:

```

<!DOCTYPE html>
<html>
<head>
    <meta charset="UTF-8" />
    <title> HTML5 Demo </title>
    <meta http-equiv="refresh" content="5"; URL=http://
        www.vtu.ac.in">
</head>
<body>
    <h3> HTML5 SVG </h3>
    <svg width="200" height="200" align="center">
        <rect x="50" y="50" width="100" height="100" fill="green"
            stroke="brown" stroke-width="6px"/>
    </svg>
    <h3> HTML5 MathML </h3>
    <math xmlns="https://www.w3.org/1998/Math/MathML">
        <mn>
            <mi>d</mi>
            <math>= \frac{m_1}{m_2} + m_3</math>
            <mn>2</mn>
            <math>\times \frac{m_1}{m_2}</math>
        </math>
    </body>
</html>

```

Page No.: 61

Date:

Practical No.:

Name of the Experiment :

Output:

Page No.: 42

Date: 18-3-25

Practical No.: 9

Name of the Experiment: List Tags

Aim:

changing the Li tag to have the following properties

- * A display status of inline
- * A medium ,doublelined ,black border
- + no list style type.

Name of the Experiment :

Procedure

- Step : 1 Open the note pad
- Step : 2 Enter the source code in it.
- Step : 3 After entering the code save
File name .html
- Step : 4 Open the program with Internet browser
- Step : 5 It shows the output on window

HTML codes

1. DOCTYPE html>

<html>

<head>

<meta charset="UTF-8" />

<title> Tag properties </title>

<style>

.custom {

display: inline;

border: 2px double black;

list-style-type: none;

margin: 5px;

Padding-top: 10px;

Padding-right: 20px;

}

.logo {

list-style-image:

url('https://www.w3schools.com/cssref/square.gif');

margin: 15px;

}

</style>

</head>

Page No.: 15

Date:

Practical No.:

Name of the Experiment :

<body>

<h2> li Tag Property modification Demo </h2>

<h3> Current top Football players </h3>

 class = "custom"> Lionel messi

 class = "custom"> Cristiano Ronaldo

<body>

<h2> list-style type with user defined image logos </h2>

<h3> Current Top Football Goalkeepers </h3>

 class = "logo">

 Emiliano Martinez

 Thibaut Courtois

</body>

</html>

Page No.: 6

Date:

Practical No.:

Name of the Experiment :

Output:

Page No.: 47

Date: 25-03-25

Practical No.: 10

Name of the Experiment: Calculator Interface

Aim:

Creating calculator interface with HTML & CSS.

Name of the Experiment :

Procedure:

Step 1: Open the note pad.

Step 2: Enter the source code into

Step 3: After Entering the code Save

File name .html

Step 4: open the program with Internet browser

Step 5: It shows the output on window.

Name of the Experiment :

HTML Codes:

```

<!DOCTYPE html>
<html>
<head>
<meta charset="utf-8" />
<title></title>
<link rel="stylesheet" type="text/css" href="calstyle.css">
</head>
<body>
<div class="calculator">
    <div class="display">
        <p id="scsolt">0</p>
    </div>
    <div class="buttons">
        <button onclick="appendToDisplay('(')">(</button>
        <button onclick="clearDisplay()">C</button>
        <button onclick="appendToDisplay('1')">1</button>
        <button onclick="appendToDisplay('2')">2</button>
        <button onclick="appendToDisplay('3')">3</button>
        <button onclick="appendToDisplay('+')">+</button>
        <button onclick="appendToDisplay('0')">0</button>
        </div>
    </div>
</body>
</html>

```

Name of the Experiment:

CSS Code:-

```
.calculator {
    display: flex;
    flex-direction: column;
    width: 350px;
    margin: 10px;
    border: 1px solid #ccc;
    border-radius: 15px;
    background-color: #f0f0f2;
}
```

.display

```
.display {
    background-color: #fff;
    border-radius: 10px;
    box-shadow: 0px 2px 5px rgba(0, 0, 0, 0.3);
    display: flex;
    justify-content: flex-end;
    align-items: center;
    padding: 10px;
    margin-left: 30px;
    margin-right: 30px;
    margin-top: 30px;
}
```

.buttons

```
display: grid;
```

Name of the Experiment :

```
grid-template-columns: repeat(4, 1fr);  
padding: 20px;
```

{

button {

```
padding: 20px;  
background-color: #8d918d;  
border: 1px solid #ccc;  
border-radius: 10px;  
cursor: pointer;  
margin: 10px;
```

```
font-size: 18px;
```

```
font-weight: bold;
```

{

button:hover {

```
background-color: #d9d9d9;
```

{

#result {

```
margin: 0;  
font-size: 24px;  
font-weight: bold;
```

{

OUTPOT: