

WP PROGRAMS 1-7

Labcycle 1: Create a form with the elements of Textboxes, Radio buttons, Checkboxes, 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, popup an alert indicating when email, mobile number and textbox has been left empty.

```
<html>
<head>
<title>Form Validation</title>
</head>
<body bgcolor="pink">
<form id="myForm">
<label for="name">Name:</label>
<input type="text" id="name" name="name"><br><br>

<label for="email">Email:</label>
<input type="text" id="email" name="email"><br><br>

<label for="mobile">Mobile Number:</label>
<input type="text" id="mobile" name="mobile"><br><br>

<label>Gender:</label>
<input type="radio" id="male" name="gender" value="Male">Male
<input type="radio" id="female" name="gender" value="Female">Female<br><br>

<label>Hobbies:</label>
<input type="checkbox" id="reading" name="hobbies" value="Reading">Reading
<input type="checkbox" id="traveling" name="hobbies" value="Traveling">Traveling<br><br>
```

```
<input type="submit" value="Submit">
</form>
```

```
<script>
    document.getElementById("myForm").addEventListener("submit",
function(event)
    {
        event.preventDefault();

        // Validation for email format
        var email = document.getElementById("email").value;
        var emailPattern = /^[a-zA-Z0-9._-]+@[a-zA-Z0-9.-]+\.[a-zA-
Z]{2,4}$/;

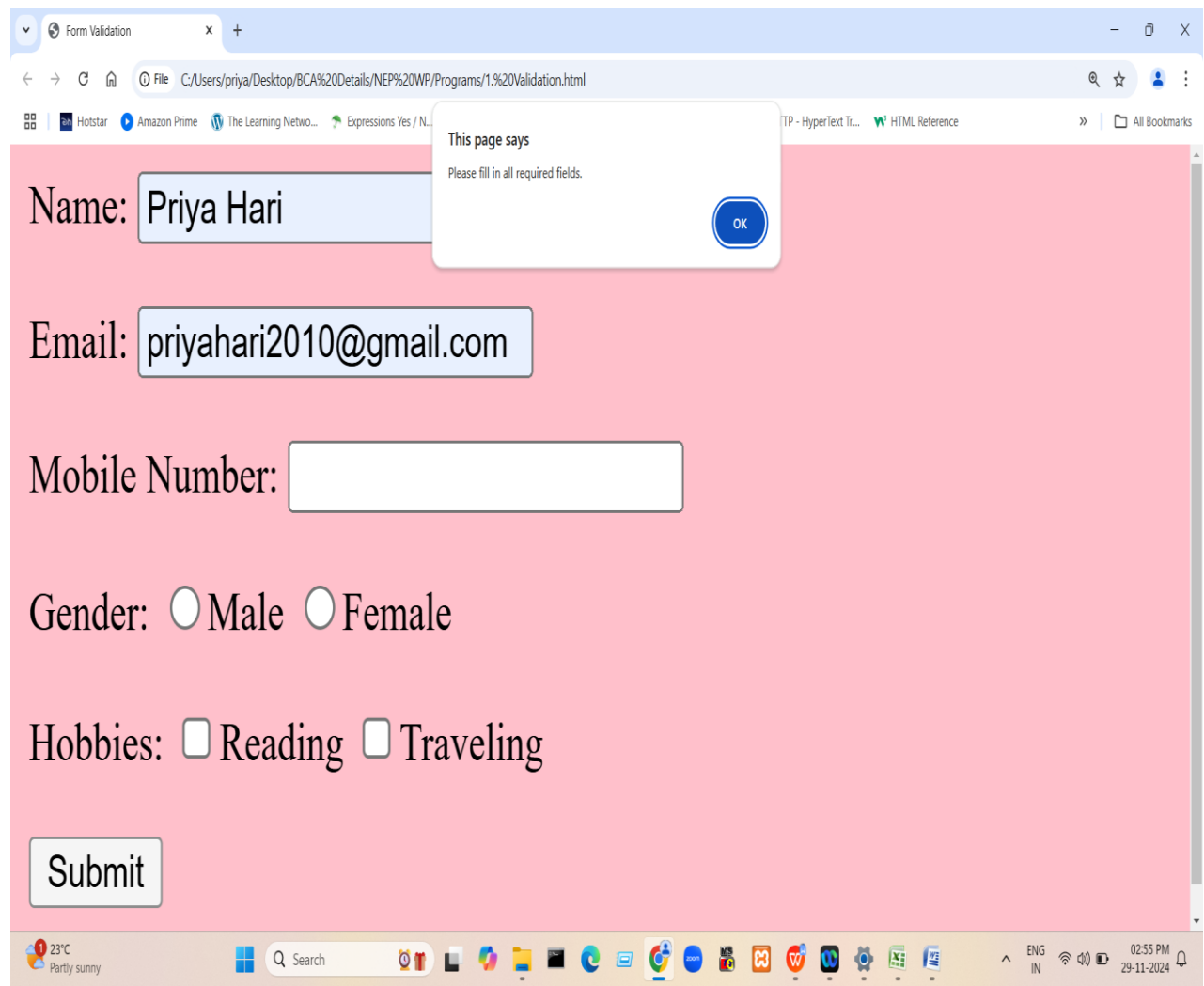
        // Validation for mobile number length (assuming 10 characters)
        var mobile = document.getElementById("mobile").value;

        // Check if any required field is left empty
        var name = document.getElementById("name").value;

        if (name == "" || email == "" || mobile == "") {
            alert("Please fill in all required fields.");
        } else if (!emailPattern.test(email)) {
            alert("Invalid email format. Please enter a valid email
address.");
        } else if (mobile.length != 10 || isNaN(mobile)) {
            alert("Mobile number should be 10 digits numeric.");
        } else {
            // Form is valid, you can submit it or perform further actions
            here
        }
    }
);
```

```
        alert("Form submitted successfully!");
    }
});
</script>
</body>
</html>
```

OUTPUT



The screenshot shows a web browser window titled "Form Validation" with the address bar displaying the file path: C:/Users/priya/Desktop/BCA%20Details/NEP%20WP/Programs/1.%20Validation.html. The browser's address bar also shows search, star, and user icons. The page content is on a pink background and includes the following form elements:

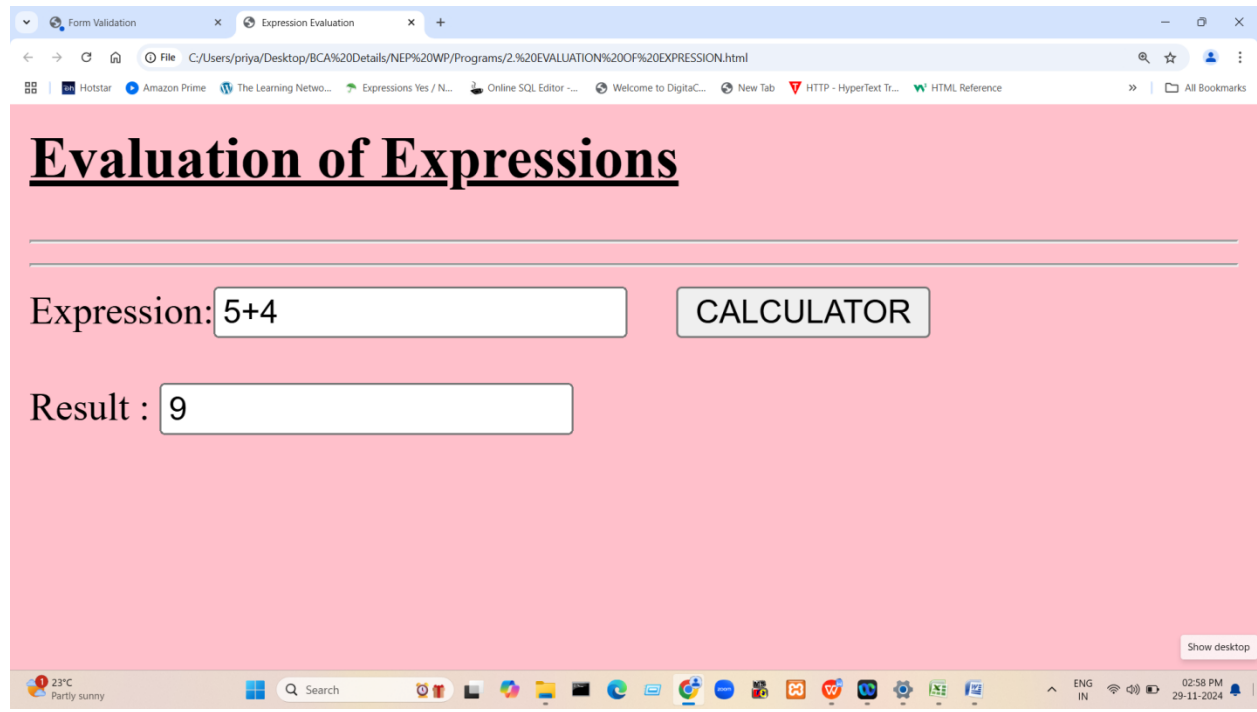
- Name:** A text input field containing "Priya Hari". A white validation message box is overlaid on this field, stating "This page says Please fill in all required fields." with an "OK" button.
- Email:** A text input field containing "priyahari2010@gmail.com".
- Mobile Number:** An empty text input field.
- Gender:** Two radio buttons labeled "Male" and "Female".
- Hobbies:** Two checkboxes labeled "Reading" and "Traveling".
- Submit:** A button labeled "Submit".

The Windows taskbar at the bottom shows the system clock as 02:55 PM on 29-11-2024, along with various application icons and a search bar.

Labcycle 2: Develop a HTML Form, which accepts any Mathematical expression. Write JavaScript code to Evaluates the expression and Displays the result.

[illegible]

OUTPUT



Labcycle 3: Create a page with dynamic effects. Write the code to include layers and basic animation.

```
<html>
<head>
<style>
    .moveable{ position: absolute;

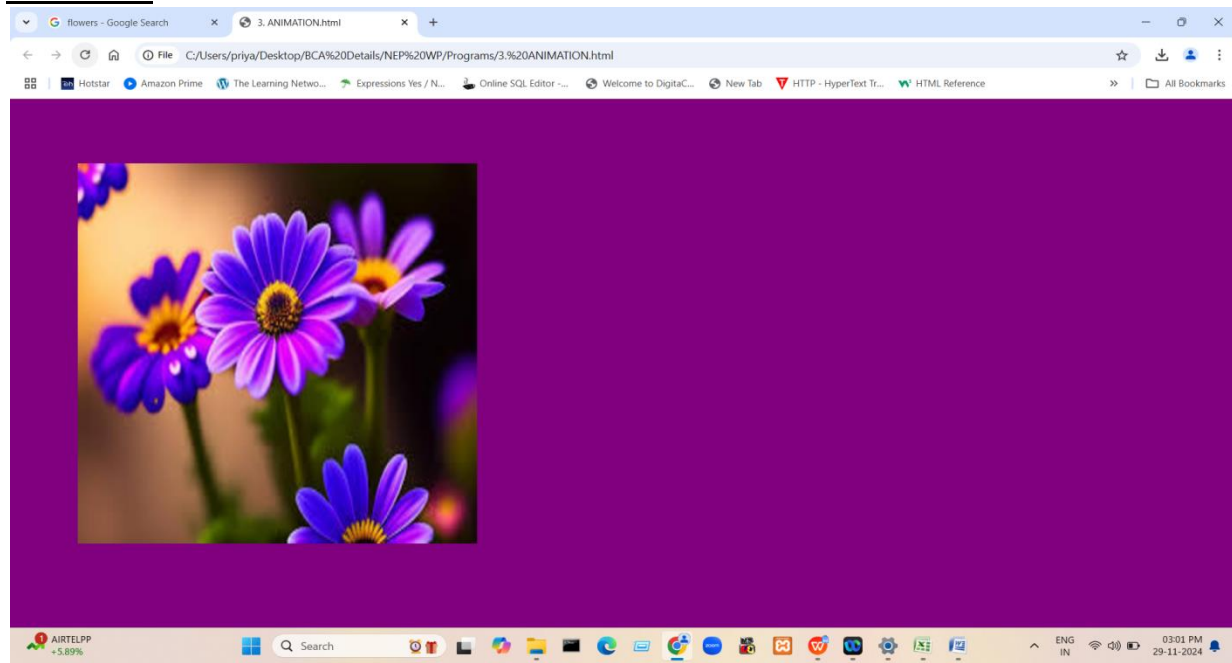
    }
</style>
<script type = "text/javascript">
    var x = 5;
    var y = 5;
    var dest_x = 300;
    var dest_y = 300;
    var interval = 10;
    function moveImage()
    {
        if(x < dest_x)
            x = x + interval;
        if(y < dest_y)
            y = y + interval;
```

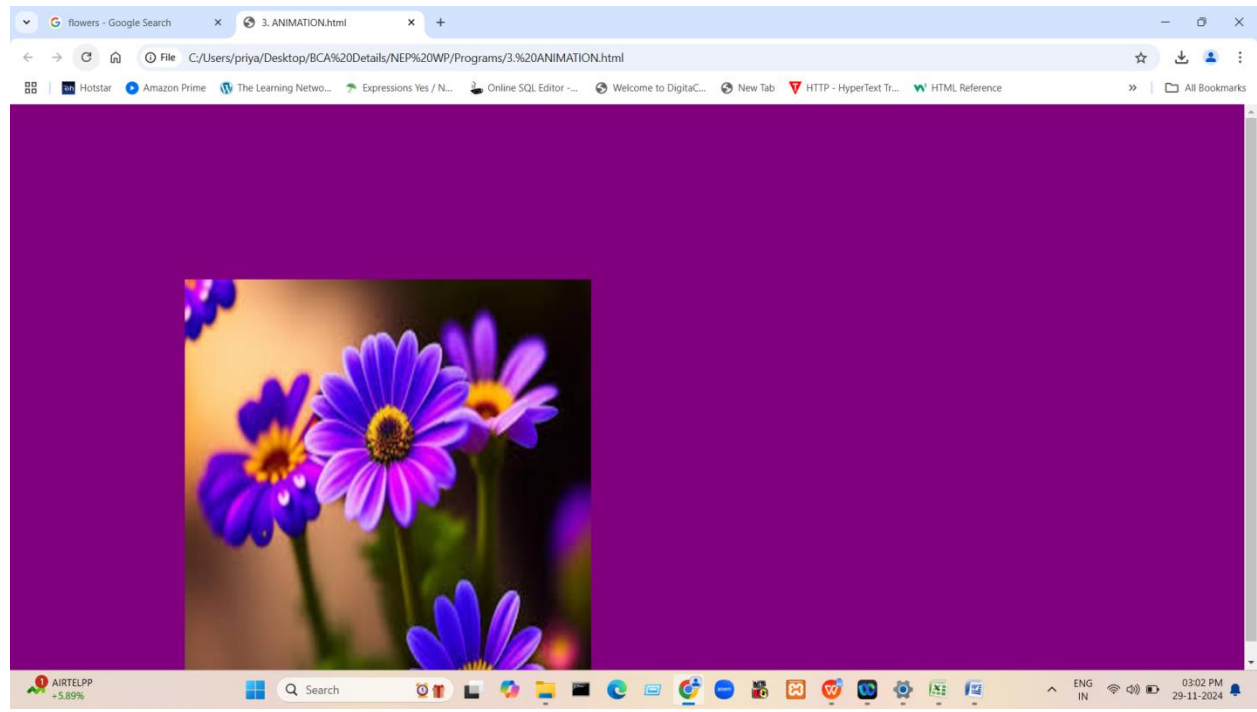
```

document.getElementById("image").style.top = y + "px";
document.getElementById("image").style.left = x + "px";
if((x + interval < dest_x) && (y + interval < dest_y))
{
    window.setTimeout("moveImage()", 100);
}
}
</script>
</head>
<body bgcolor="purple" onload = "moveImage()">
    <div id = "image" class = "moveable">
        <img height="500" width="500" src = " C:\Users\Desktop\BCA
Details\WEB PROGRAMMING\WP Programs\Part A\Beauty.jpg"
        alt = "please link to a valid image" />
    </div>
</body>
</html>

```

OUTPUT



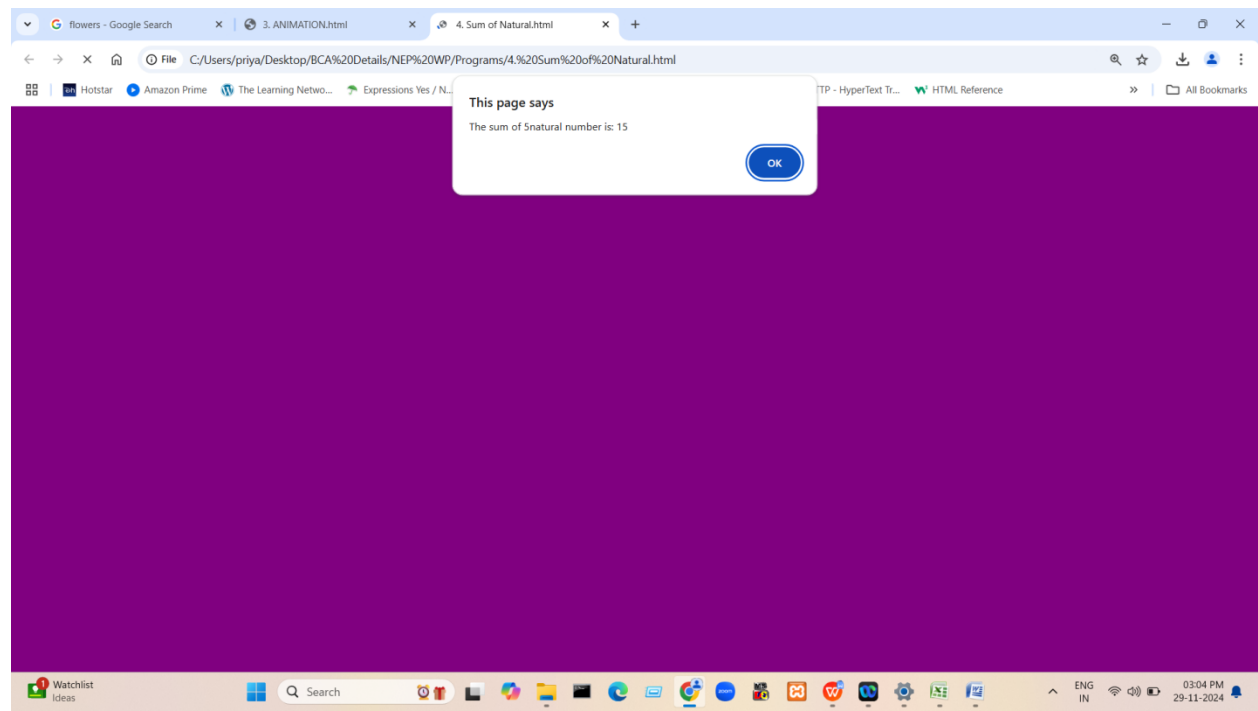
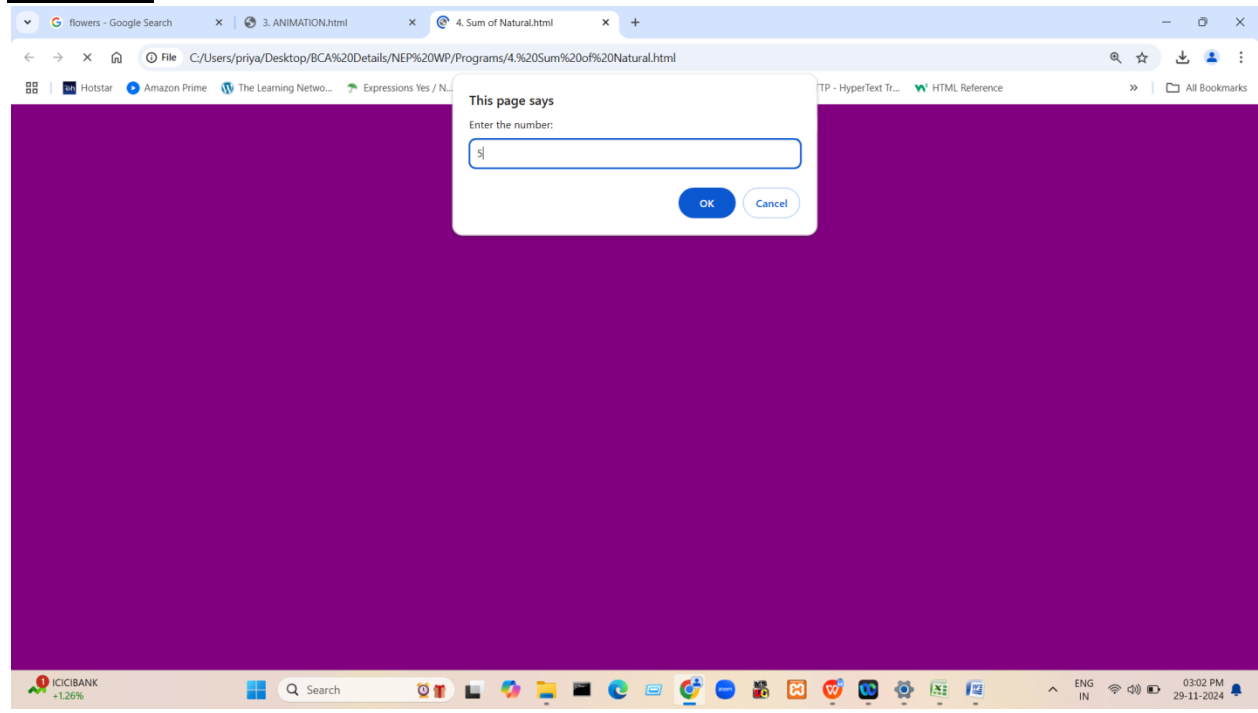


Labcycle 4: Write a JavaScript code to find the sum of N natural Numbers. (Use userdefined function)

```
<html>
<head>
<script type = "text/javascript">
    var num = window.prompt("Enter the number:", "");
    var n = parseInt(num);
    result = sum(n);
    window.alert("The sum of " + n + "natural number is: " + result);
    function sum(n)
    {
        var i;
        var sum = 0;
        for(i = 1; i <= n; i++){
            sum = sum + i;}
        return (sum);
    }
</script>
</head>
<body bgcolor="purple">
```

</html>

OUTPUT

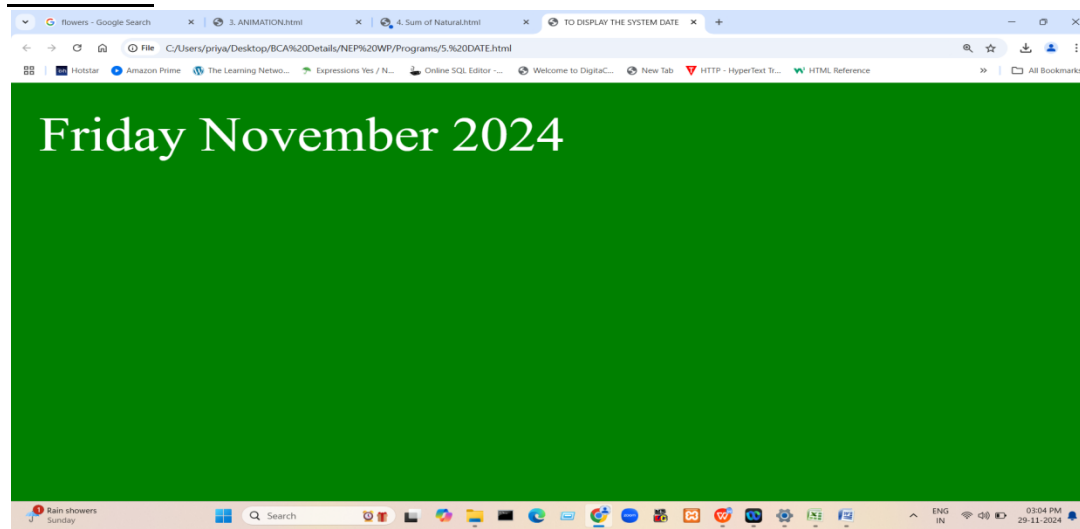


Labcycle 5: Write a JavaScript code block using arrays and generate the current date in words, this should include the day, month and year.

```
<html>
<head>
<title> TO DISPLAY THE SYSTEM DATE</title>
<script>

    var d = new Date();
    var weekday = new
Array("Sunday","Monday","Tuesday","Wednesday","Thursday","Friday
","Saturday");
    var monthname = new
Array("Jan","Feb","Mar","Apr","May","June","July","Aug","Sep","Oct","
November","December");
    document.write(weekday[d.getDay()] + " ");
    document.write(monthname[d.getMonth()] + " ");
    document.write(d.getFullYear());
</script>
</head>
<body bgcolor="green" text="white">
</body>
</html>
```

OUTPUT



Labcycle 6: Create a form for Student information. Write JavaScript code to find Total, Average, Result and Grade.

```
<html>
<head>
  <title>Registration Form</title>
  <script type = "text/javascript">
    function calc()
    { var m1,m2,m3,avg = 0,total = 0, result = " ",grade = " ";
      m1 = parseInt(document.form1.WP.value);
      m2 = parseInt(document.form1.AI.value);
      m3 = parseInt(document.form1.CG.value);
      total = m1+m2+m3;
      avg = total/3;
      if( m1 < 35 || m2 < 35 || m3 < 35)
      {      result = "fail";
        grade = "D";    }

      else if(avg >= 75)
      {      result = "Distinction";
        grade = "A+";    }

      else if(avg >= 60 && avg < 75)
      {      result = "First class";
        grade = "A";    }

      else if(avg >= 50 && avg < 60)
      {      result = "Second class";
        grade = "B";    }

      else if(avg >=35 && avg < 50)
      {      result = "Pass class";
        grade = "C";    }

      else if (avg < 35)    {
        result = "Fail";      Grade = "F";
      }
    }
  </script>
</head>
</html>
```

```

        document.form1.result.value = result;
        document.form1.grade.value = grade;
            document.form1.total.value = total;
            document.form1.average.value = avg;        }
    </script>
</head>
<body bgcolor= "Orange" >

    <form name = "form1">
        <center><h2>Student Marks</h2>
            <table border = "10">
                <tr>
                    <td> Student Name</td>
                    <td><input type = "text" /></td>
                </tr>
                <tr>
                    <td colspan = "2" align = "center">Subject Marks</td>
                </tr>
                <tr>
                    <td>Web Programming</td>
                    <td><input type = "text" name = "WP" /></td>
                </tr>
                <tr>
                    <td>Artificial Intelligence</td>
                    <td><input type = "text" name = "AI"/></td>
                </tr>
                <tr>
                    <td>Data Mining</td>
                    <td><input type = "text" name = "CG" /></td>
                </tr>
                <td colspan = "2" align = "center"><input type = "button"
onclick = "calc()" value = "CALCULATE" /></td>
            </tr>
            <tr>
                <td>Total</td>

```

```

        <td><input type = "text" name = "total"/></td>
    </tr>
    <tr>
        <td>Average</td>
        <td><input type = "text" name = "average" /></td>
    </tr>
    <tr>
        <td>Result</td>
        <td><input type = "text" name = "result" /></td>
    </tr>
    <tr>
        <td>Grade</td>
        <td><input type = "text" name = "grade"/></td>
    </tr>
</table></center>
</form>
</body>
</html>

```

OUTPUT

Student Marks

Student Name	ARUN
Subject Marks	
Web Programming	100
Artificial Intelligence	98
Data Mining	45
CALCULATE	
Total	243
Average	81
Result	Distinction
Grade	A+

Labcycle 7: Create a form for Employee information. Write JavaScript code to find DA, HRA, PF, TAX, Gross pay, Deduction and Net pay.

```
<html>
<head>
  <title>Employee Salary Details</title>
  <script type="text/javascript">
    function showSalary()
    {
      var empname = document.getElementById ( "empname" )
.value;
      var empno = document.getElementById ( "empno" ) .value;
      var basic = parseInt ( document.getElementById ( "basic" )
.value );
      var hra = basic * 0.4;
      var da = basic * 0.6;
      var gross = basic + hra + da;
      var pf = gross * 0.13;
      var tax = gross * 0.2;
      var deductions = pf + tax;
      var netsalary = gross - deductions;
      document.writeln ( " <table border='5'> ");
      document.writeln ( " <tr> <th> Employee Salary Details
</th> </tr> ");
      document.writeln ( " <tr> <td> Emp Name: </td> <td> " +
empname + " </td> </tr> ");
      document.writeln ( " <tr> <td> Emp No: </td> <td> " +
empno + " </td> </tr> " );
      document.writeln ( " <tr> <td> Basic Salary: </td> <td> " +
basic + " </td> </tr> " );
      document.writeln ( " <tr> <td> HRA: </td> <td> " + hra + "
</td> </tr> " );
```

```

        document.writeln ( " <tr> <td> DA: </td> <td> " + da + "
</td> </tr> " );
        document.writeln ( " <tr> <td> Gross Salary: </td> <td> " +
gross + " </td> </tr> " );
        document.writeln ( " <tr> <td> PF: </td> <td> " + pf + "
</td> </tr> " );
        document.writeln ( " <tr> <td> Tax: </td> <td> " + tax + "
</td> </tr> " );
        document.writeln ( " <tr> <td> Deductions: </td> <td> " +
deductions + " </td> </tr> " );
        document.writeln ( " <tr> <td> Net Salary: </td> <td> " +
netsalary + " </td> </tr> " );
    }
</script>
</head>

```

```

<body bgcolor="blue">

```

```

    <form>

```

```

        <table border="5">

```

```

            <tr>

```

```

                <th> Employee Details </th>

```

```

            </tr>

```

```

            <tr>

```

```

                <th> Employee Name: </th>

```

```

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

```

```

            </tr>

```

```

            <tr>

```

```

                <th> Employee No: </th>

```

```

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

```

```

            </tr>

```

```

            <tr>

```

```

                <th> Basic Pay: </th>

```

```

        <td> <input type="number" id="basic" /> </td>
    </tr>
</table>
    <br /><input type="button" value="Show Salary Details"
onClick="showSalary()" />
</form>
</body>
</html>

```

OUTPUT

Employee Details	
Employee Name:	KARTHIK
Employee No:	1221
Basic Pay:	5000

Show Salary Details

Employee Salary Details	
Emp Name:	KARTHIK
Emp No:	1221
Basic Salary:	5000
HRA:	2000
DA:	3000
Gross Salary:	10000
PF:	1300
Tax:	2000
Deductions:	3300
Net Salary:	6700