

PRACTICAL 9

AIM: To create an html page to explain the use of various predefined functions in an array & Date object in JavaScript.

Code:

```
<!DOCTYPE html>
<html>
<head>
  <title>
    array
  </title>
  <style>
    * {
      font-size: 15px;
      text-align: center;
      text-transform: capitalize;
    }
    button{
      width: 140px;
      height: 45px;
      font-family: 'Roboto', sans-serif;
      font-size: 11px;
      text-transform: uppercase;
      letter-spacing: 2.5px;
      color: white;
      background-color: rgb(19, 17, 17);
      border: none;
      border-radius: 45px;
      box-shadow: 6px 8px 15px rgba(0, 0, 0, 0.2);
      transition: all 0.3s ease 0s;
      cursor: pointer;
      outline: solid 1px rgb(255, 252, 252);}
    button:hover {
      color: #000;
      background-color: #fff;
      outline: black;
    }
  </style>
</head>
<body><h2>
  <table border="0" height="300px" width="1000px">
    <tr>
      <td><p>Array</p></td>
      <td><button onclick="array()">Print Array</button></td>
    </tr>
    <tr>
      <td><p id="array_friend"></p></td>
      <td></td>
    </tr>
  </table>
</h2>
</body>
</html>
```

```

<td><p>Array Push</p></td>
<td><button onclick="array_push()">Print push Array</button></td>
<td><p id="array_push1"></p>
<p id="array_push2"></p></td>
</tr><tr>
<td><p>Array Pop</p></td>
<td><button onclick="array_pop()">pop Array Method</button></td>
<td><p id="array_pop1"></p>
<p id="array_pop2"></p></td>
</tr><tr>
<td><p>Array join</p></td>
<td><button onclick="array_join()">join Array Method</button></td>
<td><p id="array_join1"></p>
<p id="array_join2"></p></td>
</tr><tr>
<td><p>Array Shift</p></td>
<td><button onclick="array_shift()">shift Array Method</button></td>
<td><p id="array_shift1"></p>
<p id="array_shift2"></p></td>
</tr><tr>
<td><p>Array unShift</p></td>
<td><button onclick="array_unshift()">unshift Array Method</button></td>
<td><p id="array_unshift1"></p>
<p id="array_unshift2"></p></td>
</tr><tr>
<td><p>Array slice</p></td>
<td><button onclick="array_slice()">slice Array Method</button></td>
<td><p id="array_slice1"></p>
<p id="array_slice2"></p></td>
</tr></table></h2>
<script>
const friends=["hemil","raj","sahil","romit","jay","krish","dharmik","tirth"];
function array()
{
    document.getElementById("array_friend").innerHTML = friends;
}
function array_push()
{
    document.getElementById("array_push1").innerHTML = " Before push : "+friends;
    friends.push("shrey");
    document.getElementById("array_push2").innerHTML = " After push : "+friends;
}
function array_pop()
{
    document.getElementById("array_pop1").innerHTML = " Before pop : "+friends;
    friends.pop("shrey");
    document.getElementById("array_pop2").innerHTML = " After pop : "+friends;
}

```

```

    }
    function array_join()
    { document.getElementById("array_join1").innerHTML = " Before join : "+friends;
      document.getElementById("array_join2").innerHTML = " After join :
"+friends.join(" // ");    }
    function array_shift()
    { document.getElementById("array_shift1").innerHTML = " Before shift : "+friends;
      friends.shift();
      document.getElementById("array_shift2").innerHTML = " After shift : "+friends;    }
    function array_unshift()
    {
document.getElementById("array_unshift1").innerHTML = " Before unshift : "+friends;
      friends.unshift("roni");
      document.getElementById("array_unshift2").innerHTML = " After unshift :
"+friends;    }
    function array_slice()
    { document.getElementById("array_slice1").innerHTML = " Before slice : "+friends;
      friends.slice(2, 0, "hiren", "miren");
      document.getElementById("array_slice2").innerHTML = " After slice : "+friends;    }
  </script>
</body>
</html>

```

Output:



Operation	Button Label	Before	After
Array	PRINT ARRAY	Hemil,Raj,Sahil,Romit,Jay,Krish,Dharmik,Tirth	
Array Push	PRINT PUSH ARRAY	Before Push : Hemil,Raj,Sahil,Romit,Jay,Krish,Dharmik,Tirth	After Push : Hemil,Raj,Sahil,Romit,Jay,Krish,Dharmik,Tirth,Shrey
Array Pop	POP ARRAY METHOD	Before Pop : Hemil,Raj,Sahil,Romit,Jay,Krish,Dharmik,Tirth,Shrey	After Pop : Hemil,Raj,Sahil,Romit,Jay,Krish,Dharmik,Tirth
Array Join	JOIN ARRAY METHOD	Before Join : Hemil,Raj,Sahil,Romit,Jay,Krish,Dharmik,Tirth	After Join : Hemil // Raj // Sahil // Romit // Jay // Krish // Dharmik // Tirth
Array Shift	SHIFT ARRAY METHOD	Before Shift : Raj,Sahil,Romit,Jay,Krish,Dharmik,Tirth	After Shift : Sahil,Romit,Jay,Krish,Dharmik,Tirth
Array UnShift	UNSHIFT ARRAY METHOD	Before Unshift : Sahil,Romit,Jay,Krish,Dharmik,Tirth	After Unshift : Roni,Sahil,Romit,Jay,Krish,Dharmik,Tirth
Array Slice	SLICE ARRAY METHOD	Before Slice : Roni,Sahil,Romit,Jay,Krish,Dharmik,Tirth	After Slice : Roni,Sahil,Romit,Jay,Krish,Dharmik,Tirth

Part b Code:

```
<!DOCTYPE html>
<html>
<head>
  <title>
    JavaScript new Date() obj
  </title>
  <style>
    * {
      font-size: 15px;
      text-align: center;
      text-transform: capitalize;
    }
  </style>
</head>
<body>
  <h2>JavaScript new Date() object </h2>
  <p>-62167200000000 milliseconds from Jan 1, 1970, is approximately Sat Jan 01 0000:</p>
  <p id="date" ></p>
  <script>
    const d = new Date(-62167200000000);
    document.getElementById("date").innerHTML = d;
  </script>
</body></html>
```

Output:



PRACTICAL 10

AIM: Write a Program to show use of alert, confirm and prompt box.

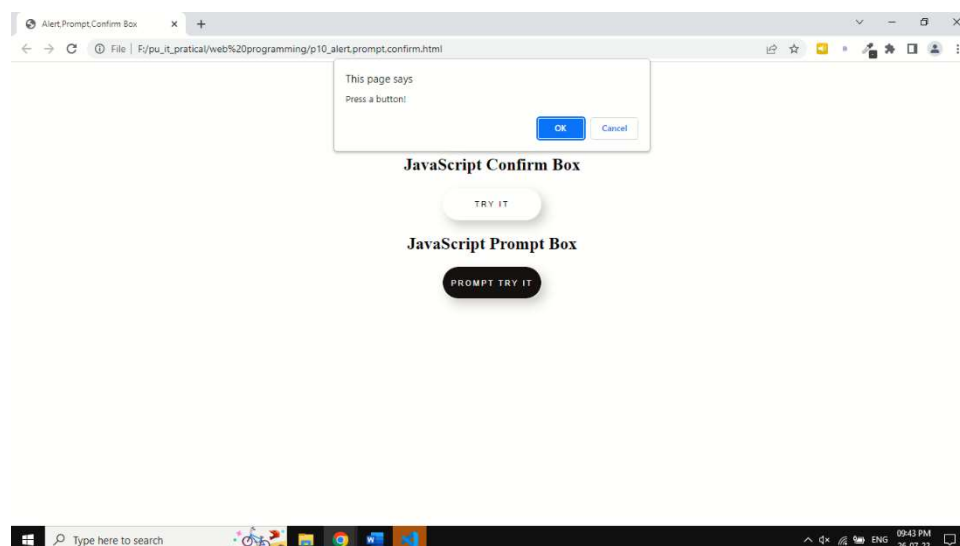
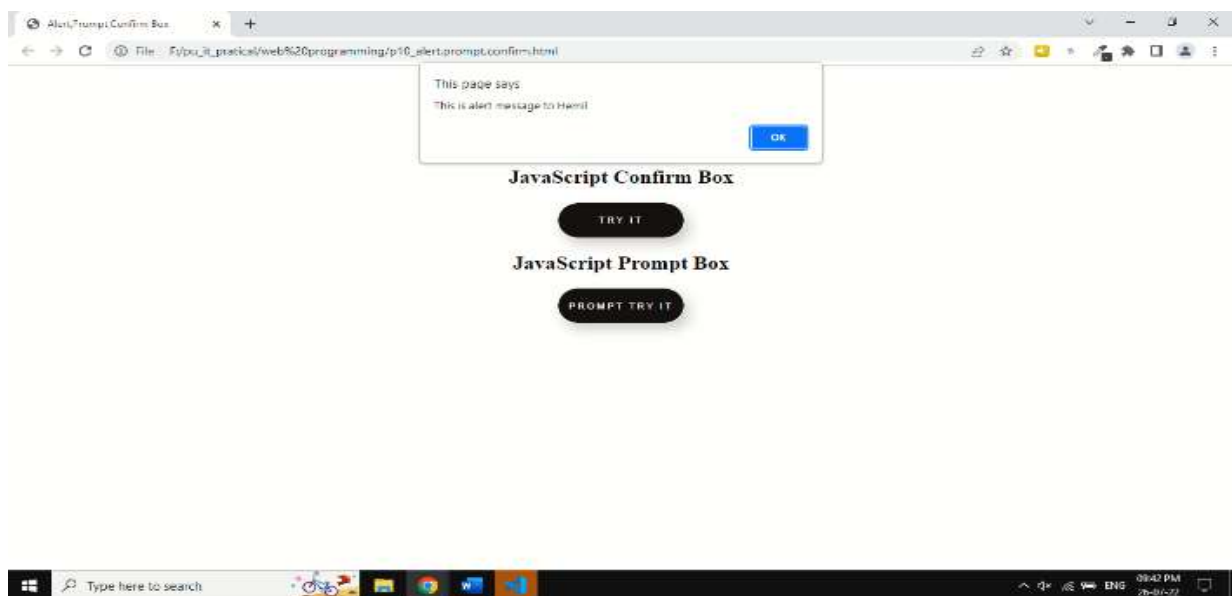
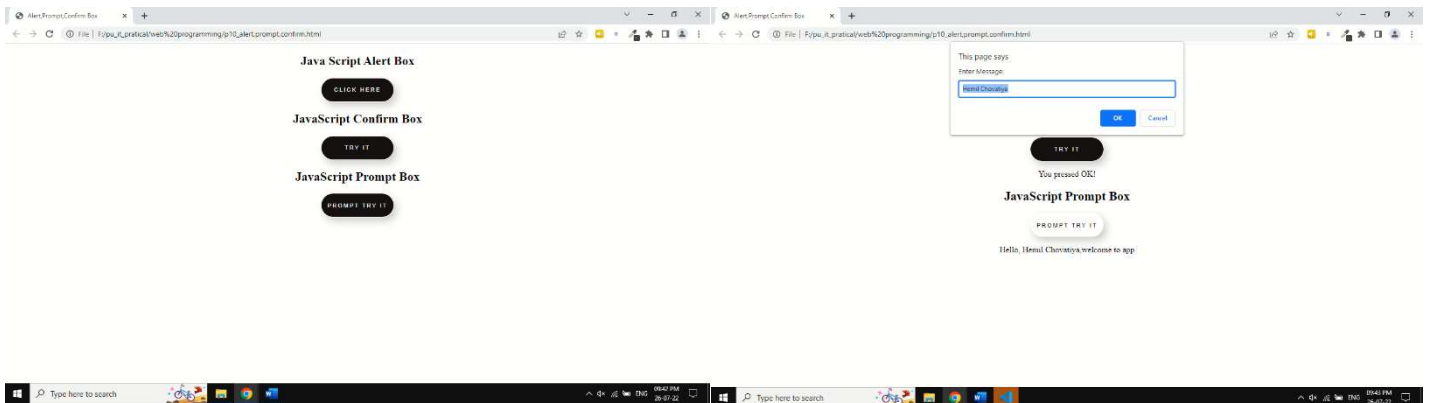
Code:

```
<!DOCTYPE html>
<html>
<head>
<title>
Alert,Prompt,Confirm Box
</title>
<style>
    *{
        text-align: center;
    }

    button{width: 140px;
        height: 45px;
        font-family: 'Roboto', sans-serif;
        font-size: 11px;
        text-transform: uppercase;
        letter-spacing: 2.5px;
        color: white;
        background-color: rgb(19, 17, 17);
        border: none;
        border-radius: 45px;
        box-shadow: 6px 8px 15px rgba(0, 0, 0, 0.2);
        transition: all 0.3s ease 0s;
        cursor: pointer;
        outline: solid 1px rgb(255, 252, 252);}
    button:hover {
        color: #000;
        background-color: #fff;
        outline: black;
    }
</style>
</head>
<body>
<h2>Java Script Alert Box</h2>
<button onclick="alert_hemil()">Click Here</button>
<h2>JavaScript Confirm Box</h2>
    <button onclick="confirmFunction()">Try it</button>
    <p id="masge"></p>
```

```
<h2>JavaScript Prompt Box</h2>
  <button onclick="prompt_Function()">Prompt Try it</button>
  <p id="inp"></p>
<script>
  function alert_hemil()
  {
    var msg="This is alert message to Hemil";
    alert(msg);
  }
  function confirmFunction() {
    var txt;
    if (confirm("Press a button!")) {
      txt = "You pressed OK!";
    } else {
      txt = "You pressed Cancel!";
    }
    document.getElementById("masge").innerHTML = txt;
  }
  function prompt_Function()
  {
    var h=prompt("Enter Message:", "Hemil Chovatiya");
    if(h!=null && h!="")
    {
      document.getElementById("inp").innerHTML="Hello, "+h+",welcome to app";
    }
    else
    {
      document.getElementById("inp").innerHTML("Not Valid");
    }
  }
</script>
</body>
</html>
```

Output:



PRACTICAL 11

AIM: Write JavaScript to perform the following operations:

a. to find highest from given three values

b. to calculate factorial of n.

Code:

```
<!DOCTYPE html><html>
<head><title>    find highest from given three value    </title>
<style>
    * {
        text-align: center;
        font-family: 'Roboto', sans-serif;
        font-size: 20px;
        letter-spacing: 2.5px;
        text-transform: capitalize;    }
    button {
        width: 140px;
        height: 45px;
        font-family: 'Roboto', sans-serif;
        font-size: 11px;
        text-transform: uppercase;
        letter-spacing: 2.5px;
        color: white;
        background-color: rgb(19, 17, 17);
        border: none;
        border-radius: 45px;
        box-shadow: 6px 8px 15px rgba(0, 0, 0, 0.2);
        transition: all 0.3s ease 0s;
        cursor: pointer;
        outline: solid 1px rgb(255, 252, 252);    }
    td, th {
        padding: 15px;    }
    input {
        width: 257px;
        height: 35px;
        padding: 5px;
        font-family: 'Roboto', sans-serif;
        font-size: 16px;
        text-transform: uppercase;
        letter-spacing: 1.5px;
        color: #000;
        background-color: #fff;
        border: none;
        border-radius: 9px;
        box-shadow: 6px 8px 15px rgba(0, 0, 0, .2);
```



```

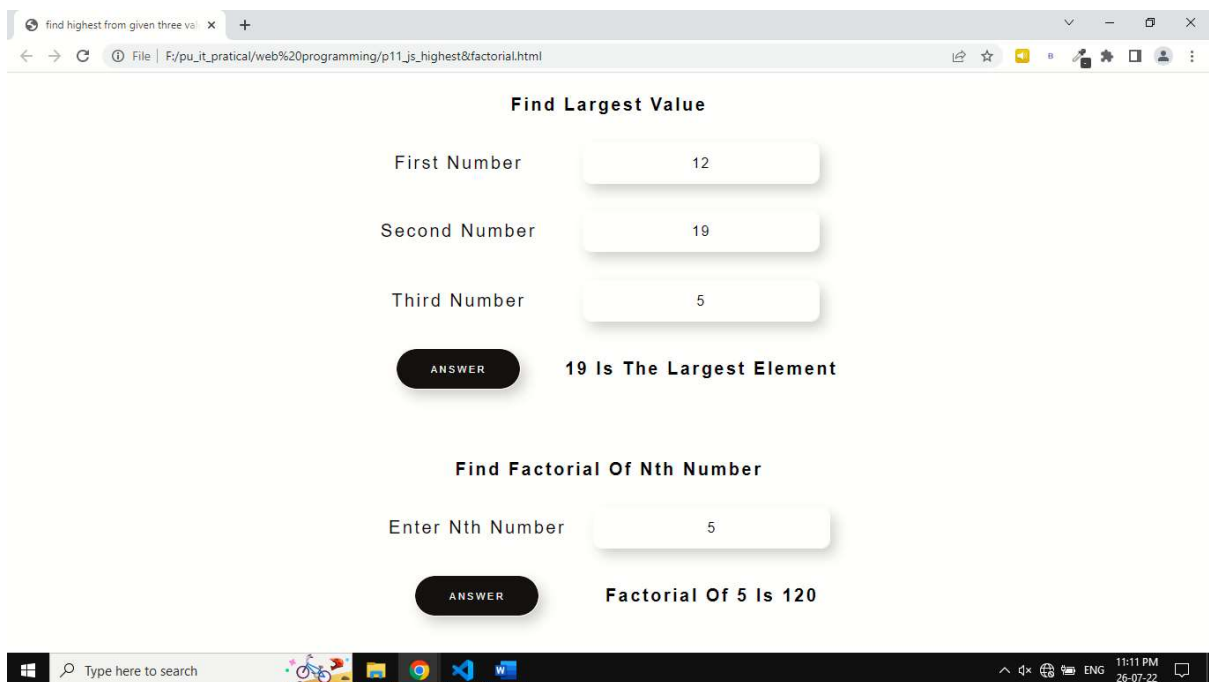
        transition: all 0.3s ease 0s;
        outline: solid 1px rgb(255, 255, 255);
    }
</style>
</head><body>
    <table border="0" align="CENTER">
        <tr>
            <th class="header" colspan="2"> Find Largest Value </th>
        </tr>
        <tr>
            <td> First Number</td>
            <td> <input id="id1" type="text" name="number" placeholder="Enter Number"
required> </td>
        </tr>
        <tr>
            <td> Second Number</td>
            <td> <input id="id2" type="text" name="number" placeholder="Enter Number"
required> </td>
        </tr>
        <tr>
            <td> Third Number</td>
            <td> <input id="id3" type="text" name="number" placeholder="Enter Number"
required> </td>
        </tr>
        <tr>
            <td> <button onclick="largest()">ANSWER</button> </td>
            <th class="ans">
                <div id="ans"></div>
            </th>
        </tr>
    </table><br><br>
    <table border="0" align="center">
        <tr>
            <th colspan="2"> Find Factorial Of Nth Number </th>
        </tr>
        <tr>
            <td> Enter Nth Number </td>
            <td> <input id="f1" type="text" name="number" placeholder="Enter Number"
required> </td>
        </tr>
        <tr>
            <td> <button onclick="factorial()">ANSWER</button> </td>
            <th>

```

```
<div id="fans"></div>
</th>
</tr>
</table>
```

```
<script> function factorial() {
    let n = Number(document.getElementById("f1").value);
    let fact = 1;
    for (let i = 1; i <= n; i++) {
        fact = fact * i;    }
    let f = ("Factorial Of " + n + " is " + fact);
    document.getElementById("fans").innerHTML = f;    }
function largest() {
    let d;
    let a = Number(document.getElementById("id1").value);
    let b = Number(document.getElementById("id2").value);
    let c = Number(document.getElementById("id3").value);
    if (a >= b && a >= c) {        d = (a + " is the largest element");    }
    else if (b >= a && b >= c) {        d = (b + " is the largest element");    }
    else { d = (c + " is the largest element"); }
    document.getElementById("ans").innerHTML = d;    }
</script></body></html>
```

Output:



find highest from given three val: x

File | F:\pu_it_practical\web%20programming\p11_js_highest&factorial.html

Find Largest Value

First Number

Second Number

Third Number

ANSWER 19 Is The Largest Element

Find Factorial Of Nth Number

Enter Nth Number

ANSWER Factorial Of 5 Is 120

Type here to search

11:11 PM 26-07-22

PRACTICAL 12

AIM: Write JavaScript to perform the following operations:

a. to calculate sum of 1 to n

b. to check whether given number is palindrome or not.

Code:

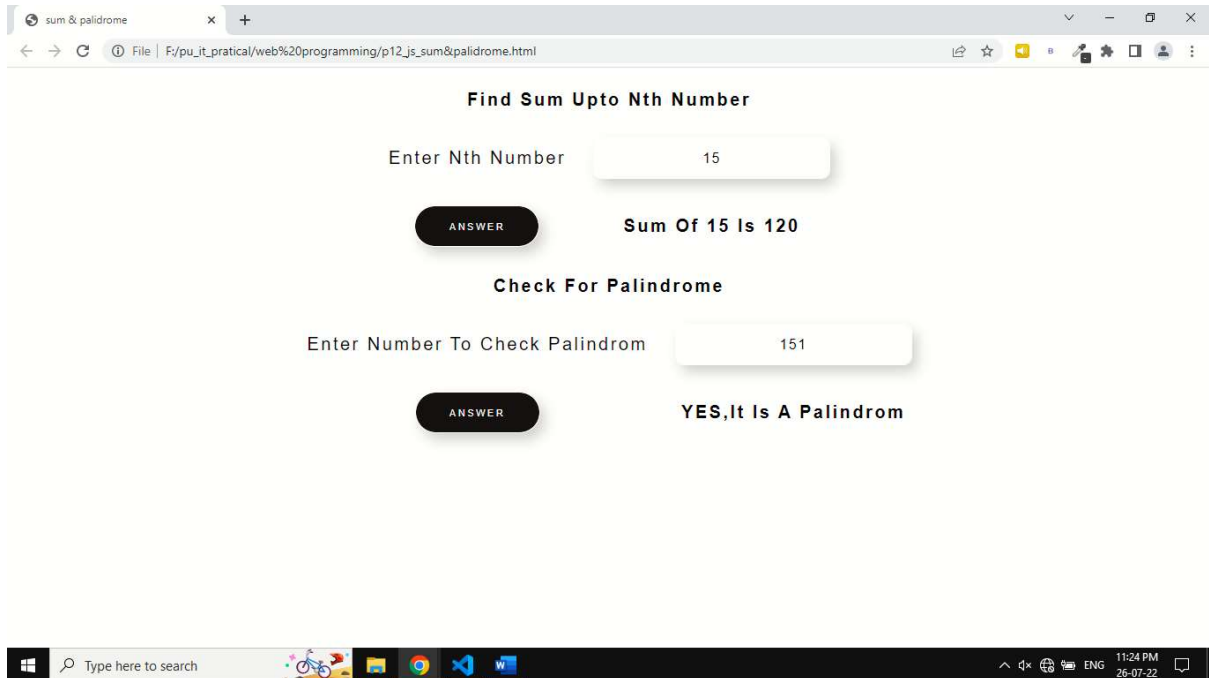
```
<!DOCTYPE html>
<html><head>
  <title>    sum & palidrome  </title>
  <style>
    * {      text-align: center;
      font-family: 'Roboto', sans-serif;
      font-size: 20px;
      letter-spacing: 2.5px;
      text-transform: capitalize;    }
    button {      width: 140px;
      height: 45px;
      font-family: 'Roboto', sans-serif;
      font-size: 11px;
      text-transform: uppercase;
      letter-spacing: 2.5px;
      color: white;
      background-color: rgb(19, 17, 17);
      border: none;
      border-radius: 45px;
      box-shadow: 6px 8px 15px rgba(0, 0, 0, 0.2);
      transition: all 0.3s ease 0s;
      cursor: pointer;
      outline: solid 1px rgb(255, 252, 252);    }
    td, th {      padding: 15px;    }
  input {      width: 257px;
    height: 35px;
    padding: 5px;
    font-family: 'Roboto', sans-serif;
    font-size: 16px;
    text-transform: uppercase;
    letter-spacing: 1.5px;
    color: #000;
    background-color: #fff;
    border: none;
    border-radius: 9px;
```

```

        box-shadow: 6px 8px 15px rgba(0, 0, 0, .2);
        transition: all 0.3s ease 0s;
        outline: solid 1px rgb(255, 255, 255);    }
    </style>
</head><body>
    <table align="center" border="0">
        <tr>        <th colspan="2"> Find Sum upto Nth number </th>        </tr>
        <tr>        <td> Enter Nth Number </td>
            <td> <input id="s1" type="text" name="number" placeholder="Enter Number"
required> </td>
        </tr>        <td> <button onclick="sum()">ANSWER</button> </td>
        <tr>        <th>        <div id="sum"></div>        </th>        </tr>
    </table>
    <table border="0" align="center">
        <tr> <th colspan="2"> Check For Palindrome </th>
        </tr> <tr>
            <td> Enter Number to check Palindrom </td>
            <td> <input id="p1" type="text" name="number" placeholder="Enter Number"
required> </td>
        </tr> <tr> <td> <button onclick="palindrome()">ANSWER</button> </td>
        <tr>        <th>        <div id="pd"></div>        </th>        </tr>
    </table>
<script> function sum() {
    let n = Number(document.getElementById("s1").value);
    let sum = 0;
    for (let i = 1; i <= n; i++) {
        sum = sum + i;
    }
    let f = ("Sum Of " + n + " is " + sum);
    document.getElementById("sum").innerHTML = f;    }
function palindrome() {
    let a = document.getElementById("p1").value;
    let b = "";
    for (let i = a.length - 1; i >= 0; i--) {        b += a[i];    }
    if (b == a) {
        document.getElementById("pd").innerHTML = "YES,It is a Palindrom";
    }
    else { document.getElementById("pd").innerHTML = "NO, It is not a Plindrom"; }    }
</script></body></html>

```

Output:



The screenshot shows a web browser window with two tabs. The active tab is titled 'sum & palidrome'. The address bar shows the file path: 'File | F:/pu_it_pratical/web%20programming/p12_js_sum&palidrome.html'. The browser interface includes back, forward, and refresh buttons, as well as a search bar and various extension icons.

Find Sum Upto Nth Number

Enter Nth Number

ANSWER **Sum Of 15 Is 120**

Check For Palindrome

Enter Number To Check Palindrom

ANSWER **YES,It Is A Palindrom**

The Windows taskbar is visible at the bottom, showing the search bar, task view button, and several application icons (File Explorer, Chrome, VS Code, Word). The system clock shows 11:24 PM on 26-07-22.

PRACTICAL 13

AIM: Write a Java Script program to print current date & time.

Code:

```
<html><head> <title> Current Date And time </title><style>
    * { text-align: center;
        font-family: 'Roboto', sans-serif;
        font-size: 24px;
        letter-spacing: 2.5px;
        text-transform: capitalize;    }
    button{width: 250px;
height: 45px;
font-family: 'Roboto', sans-serif;
font-size: 11px;
text-transform: uppercase;
letter-spacing: 2.5px;
color: white;
background-color: rgb(19, 17, 17);
border: none;
border-radius: 45px;
box-shadow: 6px 8px 15px rgba(0, 0, 0, 0.2);
transition: all 0.3s ease 0s;
cursor: pointer;
outline: solid 1px rgb(255, 252, 252);}
</style></head><body><h2>JavaScript new Date() Function</h2>
<button onclick="date()">click to see today's date</button>
<p id="date1"></p>
<script>function date(){    const date = new Date();
    document.getElementById("date1").innerHTML = "Today's Date is :"+date;}
</script></body></html>
```

Output:

