

1. Write a program to execute the conditional operator(ternary) in JavaScript.

ANS:

CODE-

```
<html>

<body></body>

<script type="text/javascript">

    var a = Number(prompt("ENTER FIRST NUMBER: "));

    var b = Number(prompt("ENTER SECOND NUMBER: "));

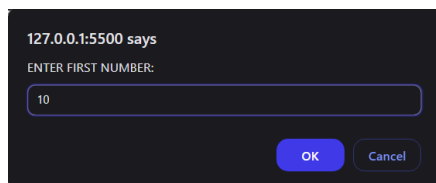
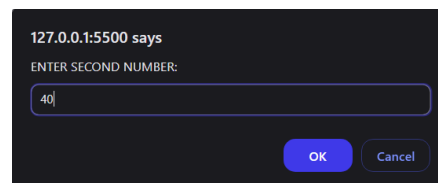
    if (a >= b) document.write("a is large");

    else document.write("b is large");

</script>

</html>
```

Output-

A screenshot of a web browser window with a dark background. At the top, it says "127.0.0.1:5500 says". Below that, it says "ENTER FIRST NUMBER:". There is a text input field containing the number "10". At the bottom right, there are two buttons: "OK" and "Cancel".A screenshot of a web browser window with a dark background. At the top, it says "127.0.0.1:5500 says". Below that, it says "ENTER SECOND NUMBER:". There is a text input field containing the number "40". At the bottom right, there are two buttons: "OK" and "Cancel".

SECOND NUMBER IS GREATER

2. Write a JavaScript program to print the factorial of a given number.

ANS:

CODE-

```
<html>

<body></body>
```

```

<script>

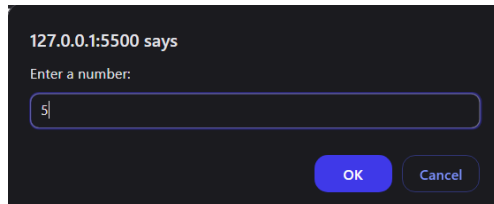
function factorial(num) {
    if (num === 0 || num === 1) {
        return 1;
    }
    return num * factorial(num - 1);
}

const number = Number(prompt("Enter a number: "));
document.write(` Factorial of ${number} is ${factorial(number)} `);

</script>
</html>

```

OUTPUT-



Factorial of 5 is 120

3. Write a JavaScript program to print the Fibonacci series till 10 number.

ANS:

CODE-

```

<html>

<body></body>

<script>

function fibonacci(n) {
    let a = 0,
        b = 1,

```

```

        next;

document.writeln("Fibonacci Series:");

for (let i = 1; i <= n; i++) {

    document.writeln(a);

    next = a + b;

    a = b;

    b = next;

}

}

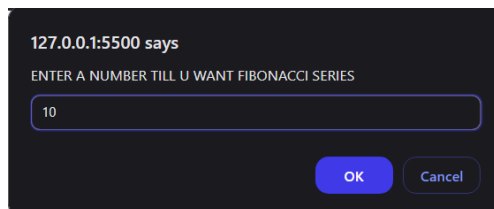
fibonacci(Number(prompt("ENTER A NUMBER TILL U WANT FIBONACCI
SERIES"))));

</script>

</html>

```

OUTPUT-



Fibonacci Series: 0 1 1 2 3 5 8 13 21 34

4. Write a code to find out whether the year is leap year or not.

ANS:

CODE-

```

<html>

<body></body>

<script>

    year =Number(prompt("ENTER YEAR: "))

    if (year % 4 == 0) {

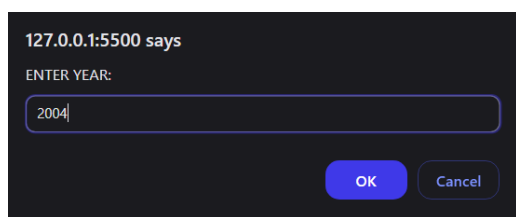
```

```

        document.writeln(` ${year} is a leap year` )
    } else {
        document.writeln(` ${year} is not a leap year` )
    }
</script>
</html>

```

CODE-



2004 is a leap year

5. Write the program for following operations on array?
 - i)remove the first element from the array
 - ii)add the new element at the end of the array?
 - iii)remove the element from the bottom of the array?
 - iv)create new array using elements of another array?

ANS:

CODE-

```

<html>

<body></body>

<script>

    // Initial array

    let arr = [10, 20, 30, 40, 50];


    document.writeln("BEFORE PERFORMING OPERATIONS ON ARRAY: ",arr);


    // i) Remove the first element

    arr.shift();

```

```
document.writeln("<br> After removing first element:", arr); // Output: [20, 30, 40, 50]
```

```
// ii) Add a new element at the end
```

```
arr.push(60);
```

```
document.writeln("<br> After adding an element at the end:", arr); // Output: [20, 30, 40, 50, 60]
```

```
// iii) Remove the element from the bottom of the array
```

```
arr.pop();
```

```
document.writeln("<br> After removing the last element:", arr); // Output: [20, 30, 40, 50]
```

```
// iv) Create a new array using elements of another array
```

```
let newArr = [...arr];
```

```
document.writeln("<br> New array created from the original array:", newArr); // Output: [20, 30, 40, 50]
```

```
</script>
```

```
</html>
```

OUTPUT-

```
BEFORE PERFORMING OPERATIONS ON ARRAY: 10,20,30,40,50
After removing first element:20,30,40,50
After adding an element at the end:20,30,40,50,60
After removing the last element:20,30,40,50
New array created from the original array:20,30,40,50
```

6. Write a program to check whether the given string is palindrome or not?

ANS:

```
<html>
```

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

```
<script>
```

```

var str = prompt("Enter a String: ");
str = str.toLowerCase();
alert("Your Entered String is : " + str);
var str2 = "";
var n = str.length;
for(let i = n-1; i >= 0; i--) {
    str2 += str[i];
}
alert("Reverse of given string is: " + str2);
if(str === str2) {
    alert(str + " is a Palindrome String");
}else {
    alert(str + " is not a Palindrome String");
}
</script>
</html>

```

7. Write a program to count the number of vowels into the string?

Ans:

a] Code:

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>

```

```

<body>

  <script>

    var str = prompt("Enter a String: ");

    alert("Your Entered String is: " + str);

    var count = 0;

    for(let i = 0; i < str.length; i++) {

      if(str[i] == 'a' || str[i] == 'e' || str[i] == 'i' || str[i] == 'o' || str[i] == 'u' || str[i] == 'A' ||
str[i] == 'E' || str[i] == 'I' || str[i] == 'O' || str[i] == 'U') {

        count++;

      }

    }

    alert("Number of Vowels in " + str + " is: " + count);

  </script>

</body>

</html>

```

8. Write a program to create the registration form for creating gmail account.

Ans:

a] Code:

```

<!DOCTYPE html>

<html lang="en">

  <head>

    <meta charset="UTF-8" />

    <meta name="viewport" content="width=device-width, initial-scale=1.0" />

    <title>Document</title>

    <style>

      input {

        width: 60%;

```

```

    }

    fieldset{

        width: 30%;

    }

</style>

</head>

<body>

    <form action="">

        <center>

            <fieldset>

                <center>

                    <h2>Sign In</h2>

                    <center><i>To continue to Gmail</i></center>

                </center><br><br>

                <center>

                    <label for="email"><h3><i>Enter Your Email: </i></h3></label>

                    <input type="text" name="email" id="email" placeholder="Enter Your Email"
required>

                    <label for="pass"><h3><i>Enter Your Password: </i></h3></label>

                    <input type="password" name="pass" id="pass" placeholder="Enter Your
Password" required>

                </center>

                <center>

                    <h3><i>Forgot Password ?</i></h3>

                    <button><h4><i>Sign In</i></h4></button>

                </center>

            </fieldset>

        </center>

    </form>


```



```
</form>

</body>

</html>
```

9. Write a JavaScript program for evaluating checkbox selection.

Ans:

a] Code:

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Document</title>

</head>

<body>

    <h1>Select Your Favourite Colors</h1>

    <input type="checkbox" name="check" value="Red"> Red <br>

    <input type="checkbox" name="check" value="Blue"> Blue <br>

    <input type="checkbox" name="check" value="Yellow"> Yellow <br>

    <input type="checkbox" name="check" value="Orange"> Orange <br>

    <input type="checkbox" name="check" value="Green"> Green <br>

    <input type="checkbox" name="check" value="White"> White <br>

    <input type="checkbox" name="check" value="Black"> Black <br><br>

    <input type="button" value="click me" onclick="myFunction()"> <br><br>

    You have Selected:

    <p id="demo"></p>

    <script>

        function myFunction() {
```

```

var x = document.getElementsByName("check");
var selected = "";
for(let i = 0; i < x.length; i++) {
    if(x[i].type == "checkbox" && x[i].checked == true) {
        selected += x[i].value + "<br>";
    }
}
document.getElementById("demo").innerHTML = selected;
}
</script>
</body>
</html>

```

10. Write a JavaScript program for Changing Attribute Values Dynamically.

Ans:

a] Code:

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <form action="">
        Enter Institute Name : <input type="text" name="institute" id="institute"
onchange="highlight(this)"><br><br>
        Enter Your Field : <input type="text" name="field" id="field"
onchange="highlight(this)"><br><br>

```

```

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

    <script>

        function highlight(x) {

            x.style.color = "yellow";

            x.style.backgroundColor = "red";

        }

    </script>

</body>

</html>

```

11. Write a program for changing the option list dynamically.

Ans:

a] Code:

```

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Document</title>

</head>

<body>

    <form action="" name="myForm">

        <select name="optionList" size="3">

            <option value="1">Kiwi</option>

            <option value="1">Apple</option>

            <option value="1">Mango</option>

            <option value="1">Guava</option>


```

```
</select>

<br>

<input type="radio" name="grp1" value="1" checked="true"
onclick="modifyList(this.value)">Fruits

<input type="radio" name="grp1" value="2"
onclick="modifyList(this.value)">Vegetables

</form>

<script>

function modifyList(x) {

    with(document.forms.myForm) {

        if(x == 1) {

            optionList[0].text = "Kiwi";

            optionList[0].value = 1;

            optionList[1].text = "Apple";

            optionList[1].value = 2;

            optionList[2].text = "Mango";

            optionList[2].value = 3;

            optionList[3].text = "Guava";

            optionList[3].value = 4;

        }

        if(x == 2) {

            optionList[0].text = "Onion";

            optionList[0].value = 1;

            optionList[1].text = "Tomato";

            optionList[1].value = 2;

            optionList[2].text = "Potato";

            optionList[2].value = 3;

            optionList[3].text = "Cabbage";

            optionList[3].value = 4;

        }

    }

}
```

```
    }  
  }  
}  
</script>  
</body>  
</html>
```

12. Develop a program for as we enter the firstname and lastname , email is automatically generated.

Ans:

a] Code:

```
<!DOCTYPE html>  
<html lang="en">  
<head>  
  <meta charset="UTF-8">  
  <meta name="viewport" content="width=device-width, initial-scale=1.0">  
  <title>Document</title>  
</head>  
<body>  
  Enter First Name : <input type="text" name="fname" id="fname"><br><br>  
  Enter Last Name : <input type="text" name="lname" id="lname"><br><br>  
  <input type="button" value="Generate Email" onclick="generate()"> <br><br>  
  Email : <input type="email" id="demo">  
<script>  
  function generate() {  
    var x = document.getElementById("fname").value.toLowerCase();  
    var y = document.getElementById("lname").value.toLowerCase();  
    var z = "@gmail.com";
```

```

        var email = x+y+z;

        document.getElementById("demo").value = email;
    }
</script>
</body>
</html>

```

13. Write a program to demonstrate the use of onchange event.

Ans:

a] Code:

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <form action="">

        Enter Institute Name : <input type="text" name="institute" id="institute"
onchange="highlight(this)"><br><br>

        Enter Your Field : <input type="text" name="field" id="field"
onchange="highlight(this)"><br><br>

        <input type="submit" value="submit">
    </form>
<script>
    function highlight(x) {
        x.style.color = "yellow";
        x.style.backgroundColor = "red";
    }

```

```
    }  
  </script>  
</body>  
</html>
```

14. Write a JavaScript program to demonstrate the addEventListener ().

Ans:

a] Code:

```
<!DOCTYPE html>  
<html lang="en">  
  <head>  
    <meta charset="UTF-8">  
    <meta name="viewport" content="width=device-width, initial-scale=1.0">  
    <title>Document</title>  
  </head>  
  <body>  
    <p>Press a key inside the textbox to change the color of the textbox</p>  
    <input type="text" id="demo">  
    <script>  
      document.getElementById("demo").addEventListener("keypress",myfunction);  
      function myfunction() {  
        document.getElementById("demo").style.backgroundColor = "yellow";  
      }  
    </script>  
  </body>  
</html>
```

15. Write a program to disable and enabled text field.

Ans:

a] Code:

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>Document</title>

</head>

<body>

  <input type="text" name="demo" id="demo"><br><br>

  <input type="button" value="Disabled Text" onclick="disable()">

  <input type="button" value="Enabled Text" onclick="enable()">

  <script>

    function disable() {

      document.getElementById("demo").disabled = true;

    }

    function enable() {

      document.getElementById("demo").disabled = false;

    }

  </script>

</body>

</html>
```

16. Write a JavaScript program to change the value of an element that the user cannot change (a read-only element)

Ans:

a] Code:


```

<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>Document</title>

</head>

<body>

  <input type="text" name="demo" id="demo"><br><br>

  <input type="button" value="ReadOnly Text" onclick="read()">

  <input type="button" value="Normal Text" onclick="normal()">

  <script>

    function read() {

      document.getElementById("demo").readOnly = true;

    }

    function normal() {

      document.getElementById("demo").readOnly = false;

    }

  </script>

</body>

</html>

```

17. Write a program to read the cookie.

Ans:

a] Code:

```

<!DOCTYPE html>

<html lang="en">

<head>

```

```
<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Document</title>

</head>

<body>

  <form action="" name="myForm">

    Enter Your Name: <input type="text" name="demo" id="demo"> <br><br>

    <input type="reset" type="button" value="setCookie" onclick="writeCookie()">

    <input type="reset" type="button" value="getCookie" onclick="readCookie()">

  </form>

  <script>

    function writeCookie() {

      with(document.myForm) {

        document.cookie = "Name : " + demo.value + ";";

        alert("Cookie Written Successfully");

      }

    }

    function readCookie() {

      var x;

      if(document.cookie == "") {

        x = "";

      } else {

        x = document.cookie;

        document.write(x);

      }

    }

  </script>

</body>
```

</html>

18. Write a program to delete the cookie.

Ans:

a] Code:

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
    <meta charset="UTF-8">
```

```
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
    <title>Document</title>
```

```
</head>
```

```
<body>
```

```
    <form action="" name="myForm">
```

```
        Enter Your Name: <input type="text" name="demo" id="demo"> <br><br>
```

```
        <input type="reset" type="button" value="setCookie" onclick="writeCookie()">
```

```
        <input type="reset" type="button" value="getCookie" onclick="readCookie()">
```

```
    </form>
```

```
    <script>
```

```
        function writeCookie() {
```

```
            var d = new Date();
```

```
            d.setTime(d.getTime()+(1000*10));
```

```
            with(document.myForm) {
```

```
                document.cookie = "Name : " + demo.value + ";expires= " + d.toGMTString();
```

```
                alert("Cookie Written Successfully");
```

```
            }
```

```
        }
```

```
        function readCookie() {
```

```
var x;

if(document.cookie == "") {

    x = "";

} else {

    x = document.cookie;

    document.write(x);

}

}

</script>

</body>

</html>
```

19. Write a program to demonstrate the use of `scrollBy ()` and `scrollTo()`.

Ans:

a] Code:

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Document</title>

    <style>

        body {

            width: 5000px;

            height: 5000px;

        }

    </style>
```

```

</head>
<body>
  <p>Click on the Horizontal scroll bar to scroll the text horizontally</p>
  <p>Click on the Vertical scroll bar to scroll the text vertically</p>
  <button onclick="scrollHor()">Scroll Horizontal</button>
  <button onclick="scrollVer()">Scroll Vertical</button>
  <script>
    function scrollHor() {
      window.scrollBy(100,0)
    }
    function scrollVer() {
      window.scrollTo(0,100);
    }
  </script>
</body>
</html>

```

20. Writing a number after a delay using setInterval () method. In this example, numbers are displayed in a textarea after a 1 second.

Ans:

a] Code:

```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>

```

```
<body>

  <button onclick="magic()">Click me</button>

  <br><br>

  <textarea name="output" id="output" rows="2" cols="20"></textarea>

  <script>

    var number = 0;

    var timerId = null;

    function magic() {

      if(timerId == null) {

        timerId = setInterval("display()",1000);

      }

    }

    function display() {

      if(number > 15) {

        clearInterval(timerId);

        return;

      }

      document.getElementById("output").innerHTML += number;

      number++;

    }

  </script>

</body>

</html>
```

21. Write a code that accepts username and Aadhar card as input texts. When the user enters Aadhar-card number, the javascript validates card number and displays whether card number is valid or not.

Ans:

a] Code:

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>Document</title>

</head>

<body>

  Enter Username: <input type="text" name="user" id="user"> <br><br>

  Enter Aadhar Number: <input type="text" name="aadhar" id="aadhar"> <br><br>

  <input type="button" value="Validate Aadhar" onclick="valid()">

  <script>

    function valid() {

      var userinput = document.getElementById("user").value;

      var aadharno = document.getElementById("aadhar").value;

      const format = /^d{4}s\d{4}s\d{4}$/;

      if(userinput === "") {

        alert("Plz enter a Username ");

      } else if(format.test(aadharno)) {

        alert("Valid Aadhar number for user: " + userinput);

      } else {

        alert("Invalid Aadhar number. Plz enter in xxxx xxxx xxxx format....");

      }

    }

  </script>

</body>

</html>
```

22. Write a code to validate email-id.

Ans:

a] Code:

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>Document</title>

</head>

<body>

  Enter Your Email: <input type="text" name="email" id="email"><br><br>

  <input type="button" value="Validate Email" onclick="valid()">

  <script>

    function valid() {

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

      const format = /^[a-zA-Z0-9._%+-]+@[a-zA-Z0-9.-]+\.\S{2,}$/;

      if(emailinput === "") {

        alert("Enter Email");

      } else if(format.test(emailinput)) {

        alert("Valid Email Address");

      } else {

        alert("Invalid Email Address");

      }

    }

  </script>

</body>

</html>
```


23. Create a rollover effect that can change the color of its text.

Ans:

a] Code:

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>Document</title>

</head>

<body>

  <p onmouseover="changeColor()" onmouseout="normal()" id="color">Move the
mouse over me to change the color of my text</p>

  <script>

    function changeColor() {

      document.getElementById("color").style.color = "red";

    }

    function normal() {

      document.getElementById("color").style.color = "black";

    }

  </script>

</body>

</html>
```

24. Create a rollover effect that can change the image. (Set of 4 images)

Ans:

a] Code:

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>Document</title>

</head>

<body>

  <script>

    var i = 0;

    var s;

    var arr = ["banner1.jpg","banner2.jpg","banner3.jpg","banner4.jpg"];

    function normal() {

      clearInterval(s);

      document.getElementById("img1").src = "banner1.jpg";

    }

    function change() {

      s = setInterval(display,1000);

    }

    function display() {

      if(i === arr.length) {

        i = 0;

      }else {

        document.getElementById("img1").src = arr[i];

        i++;

      }

    }

  </script>


```

```
    }  
    </script>  
</body>  
</html>
```

25. Demonstrate the use of chain select menu.

Ans:

```
<!DOCTYPE html>  
<html lang="en">  
  <head>  
    <meta charset="UTF-8" />  
    <title>Menu in JavaScript</title>  
    <!-- <link rel="stylesheet" href="style.css" /> -->  
    <style>  
      .center {  
        text-align: center;  
      }  
  
      select {  
        text-align: center;  
        font-size: 20px;  
        padding: 10px;  
        width: 500px;  
      }  
  
      td {  
        padding: 15px;  
        vertical-align: top;
```

```
        font-size: 20px;

    }
</style>

</head>


<body>

    <h1>6.4 Menus</h1>

    <div class="center">

        <h2>Select Country:</h2>

        <select name="country" id="country" onchange="showStates(this.value)">

            <option value="">-- SELECT --</option>

            <option value="India">India</option>

            <option value="USA">USA</option>

        </select>

        <h2>Select State:</h2>

        <select name="state" id="state" onchange="showCity(this.value)">

            <option value="">-- SELECT --</option>

        </select>

        <h2>Select City:</h2>

        <select name="city" id="city" onchange="showArea(this.value)">

            <option value="">-- SELECT --</option>

        </select>

        <h2>Select Area:</h2>

        <select name="area" id="area">

            <option value="">-- SELECT --</option>

        </select>

    </div>

    <script>
```

```

function showStates(country) {

    let elem = document.getElementById("state");

    if (country == "India") {

        var states = `<option value="">-- SELECT --</option>

            <option value='Maharashtra'>Maharashtra</option>

            <option value='Gujarat'>Gujarat</option>

            `;

        elem.innerHTML = states;

    } else if (country == "USA") {

        var states = `<option value="">-- SELECT --</option>

            <option value='California'>California</option>

            <option value='Colorado'>Colorado</option>

            `;

        elem.innerHTML = states;

    } else {

        elem.innerHTML = "<option value="">-- SELECT --</option>";

    }

}

```

```

function showCity(state) {

    let elem = document.getElementById("city");

    if (state == "Maharashtra") {

        var city = `<option value="">-- SELECT --</option>

            <option value='Mumbai'>Mumbai</option>

            <option value='Pune'>Pune</option>

            `;

        elem.innerHTML = city;

    } else if (state == "Gujarat") {

```

```

var city = `<option value="">-- SELECT --</option>

    <option value='Ahmedabad'>Ahmedabad</option>

    <option value='Surat'>Surat</option>

`;

elem.innerHTML = city;

} else {

    elem.innerHTML = "<option value="">-- SELECT --</option>";

}

}

```

```

function showArea(city) {

    let elem=document.getElementById("area");

    if (city == "Mumbai") {

        var area = `<option value="">-- SELECT --</option>

            <option value='CST'>CST</option>

            <option value='Vadala Road'>Vadala Road</option>

            `;

        elem.innerHTML = area;

    } else if (city == "Surat") {

        var area = `<option value="">-- SELECT --</option>

            <option value='Dabholi'>Dabholi naka</option>

            <option value='tapi riverz'>tapi river ashram</option>

            `;

        elem.innerHTML = area;

    } else {

        elem.innerHTML =

            "<option value="">-- SELECT --</option>";

    }

}

```

```
}  
</script>  
</body>  
</html>
```

26. Demonstrate the use of context menu.

Ans:

a] Code:

```
<!DOCTYPE html>  
<html lang="en">  
<head>  
  <meta charset="UTF-8">  
  <meta name="viewport" content="width=device-width, initial-scale=1.0">  
  <title>Custom Context Menu</title>  
  <style>  
    #targetBox {  
      background: yellow;  
      padding: 10px;  
      border: 1px solid black;  
    }  
    #contextMenu {  
      display: none;  
      position: absolute;  
      background: white;  
      border: 1px solid #ccc;  
    }  
    #contextMenu li {  
      padding: 5px;
```

```

        cursor: pointer;
    }
    #contextMenu li:hover {
        background: #eee;
    }
</style>
</head>
<body>
    <div id="targetBox">Right-click here!</div>
    <ul id="contextMenu">
        <li onclick="location.reload()">Refresh</li>
        <li
onclick="window.open('//twitter.com/intent/tweet?text='+location.href)">Twitter</li>
        <li
onclick="window.open('//facebook.com/sharer/sharer.php?u='+location.href)">Facebook</li>
        <li onclick="location.href='mailto:?body='+location.href">Email</li>
    </ul>
    <script>
        const menu = document.getElementById("contextMenu"), box =
document.getElementById("targetBox");
        box.addEventListener("contextmenu", e => {
            e.preventDefault(); menu.style.display = "block"; menu.style.top = e.clientY +
"px"; menu.style.left = e.clientX + "px";
        });
        document.addEventListener("click", () => menu.style.display = "none");
    </script>
</body>
</html>

```


27. Write a program for pull down menu.

Ans:

a] Code:

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Document</title>

</head>

<body>

    <form action="" onsubmit="return validate()">

        Select your City

        <select name="city" id="city">

            <option value="Select">Select</option>

            <option value="Delhi">Delhi</option>

            <option value="Jaipur">Jaipur</option>

            <option value="Agra">Agra</option>

            <option value="Bangalore">Bangalore</option>

            <option value="Pune">Pune</option>

        </select>

        <input type="submit" name="Submit" value="Submit">

    </form>

    <script>

        function validate() {

            var citiname = document.getElementById("city");

            if(citiname.selectedIndex == "") {
```

```

        alert("Please select an option");

        return false;
    }

    var selectedText = citiname.options[citiname.selectedIndex].value;

    alert("You have selected: " + selectedText);

    return true;
}

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

```

28. Write a program for email concealing

Ans:

```

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8" />

    <meta name="viewport" content="width=device-width, initial-scale=1.0" />

    <title>Document</title>

</head>

<body>

    <script>

        function CreateEmailAddress() {

            var x = "abcxyz*c_o_m";

            var y = "mai";

            var z = "lto";

            var s = "?subject=Customer Inquiry";

            x = x.replace("&", "@");

```

```

        x = x.replace("*", ".");
        x = x.replace("_", "");
        x = x.replace("-", "");
        var b = y + z + ":" + x + s;

        window.location = b;
    }
</script>

<input type="button" value="send" onclick="CreateEmailAddress()">

</body>

</html>

```

29. Create rotating banner Ads with URL links.

Ans:

a] Code:

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Banner Ads</title>
    <style>
        .center {
            text-align: center;
            margin-top: 20px;
        }
    </style>
    <script>
        const banners = ['banner1.jpg', 'banner2.jpg', 'banner3.jpg'];
        const bannerLinks = ['https://google.com', 'https://vpt.edu.in',
'https://msbte.org.in'];
        let bannerIndex = 0;

        function showBanner() {
            document.getElementById("bannerImage").src = banners[bannerIndex];
            bannerIndex = (bannerIndex + 1) % banners.length;
        }
    </script>

```

```

function startBannerRotation() {
    bannerInterval = setInterval(showBanner, 1000);
}

function stopBannerRotation() {
    clearInterval(bannerInterval);
}

function navigate() {
    window.location.href = bannerLinks[bannerIndex];
}
</script>
</head>
<body onload="startBannerRotation()">
    <h1>Banner Ads Demo</h1>
    <div class="center">
        <a href="javascript:navigate()">
            
        </a>
        <br><br>
        <button onclick="startBannerRotation()">START</button>
        <button onclick="stopBannerRotation()">STOP</button>
    </div>
</body>
</html>

```

Banner Ads Demo



30. Create a slideshow with group of four images, also simulate the next and previous transition between slides in javascript.

Ans:

a] Code:

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
  <meta charset="UTF-8">
```

```
  <title>Learning Banners</title>
```

```
  <!-- <link rel="stylesheet" href="style.css"> -->
```

```
  <script>
```

```
    MyBanners = ['images/banner1.jpg', 'images/banner2.jpg', 'images/banner3.jpg',  
'images/banner4.jpg', 'images/banner5.jpg']
```

```
    bannerCounter = 0
```

```
    function next() {
```

```
      document.getElementById("changeBanner").src =  
MyBanners[bannerCounter++];
```

```
      if (bannerCounter == MyBanners.length) {
```

```
        bannerCounter = 0
```

```
      }
```

```
    }
```

```
    function prev() {
```

```
      document.getElementById("changeBanner").src = MyBanners[bannerCounter-  
-];
```

```
      if (bannerCounter == -1) {
```

```
        bannerCounter = MyBanners.length - 1
```

```
      }
```

```
    }
```

```
  </script>
```

```
</head>
```

```
<body>

  <h1>6.3 Slideshow</h1>

  <div class="center">

    <a href="https://www.hertzsoft.com">

    </a>

    <br><br>

    <button onclick="prev()">&#x3c; PREV</button>

    <button onclick="next()">NEXT &#x3e;</button>

  </div>

</body>

</html>
```