

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

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 age = Number(prompt("Enter Your Age: "));

    alert("Your Age is : " + age);

    (age>18)?alert("You Can Drive"):alert("You cannot Drive");

  </script>

</body>

</html>
```

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

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 number = Number(prompt("Enter a number to calculate its Factorial: "));
    var fact = factorial(number);
    alert("Factorial of " + number + " is : " + fact);
    function factorial(n) {
      let result = 1;
      for(let i = 1; i <= n; i++) {
        result *= i;
      }
      return result;
    }
  </script>
</body>
</html>
```

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

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 number = Number(prompt("Enter a number to calculate its Fibonacci: "));

    var n1 = 0;

    var n2 = 1;

    var n3 = 0;

    for(let i = 0; i <= number; i++) {

        n3 = n1 + n2;

        document.write(n3);

        n1 = n2;

        n2 = n3;

    }

</script>

</body>

</html>
```

4. Write a code to find out whether the year is leap year 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>

    <script>

        var year = Number(prompt("Enter a Year: "));
```

```

        if(year % 4 == 0) {
            alert(year + " is a Leap Year");
        }else {
            alert(year + " is not a Leap Year");
        }
    }
</script>
</body>
</html>

```

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:

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;

        document.write("Original Array: " + "<br>");

        var arr =
["Apple","Banana","Chickoo","Guava","JackFruit","Mango","Peru","Watermelon"];

```

```
for(i = 0; i < arr.length; i++) {  
    document.write(arr[i] + "<br>");  
}  
document.write("<br><br>");  
document.write("Remove Element At Beginning: " + "<br>");  
var arr1 = arr.shift();  
for(i = 0; i < arr.length; i++) {  
    document.write(arr[i] + "<br>");  
}  
document.write("<br><br>");  
document.write("Add Element at the end of Array: " + "<br>");  
var arr2 = arr.push("Kiwi");  
for(i = 0; i < arr.length; i++) {  
    document.write(arr[i] + "<br>");  
}  
document.write("<br><br>");  
document.write("Remove Element from the end of Array: " + "<br>");  
var arr3 = arr.pop();  
for(i = 0; i < arr.length; i++) {  
    document.write(arr[i] + "<br>");  
}  
document.write("<br><br>");  
document.write("Creating new Array: " + "<br>");  
var arr4 = arr.slice(2);  
for(i = 0; i < arr4.length; i++) {  
    document.write(arr4[i] + "<br>");  
}  
</script>
```

</body>

</html>

6. Write a program to check whether the given string is palindrome 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>
```

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

</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>
```

```
</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 = /^[^\\w+([\\._]?\\w)*@\\w+([\\._]?\\w)*\\.\\w{2,3})$/;

    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>

</body>

</html>

```

25. Demonstrate the use of chain select menu.

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>

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

    <select name="optone" id="aaa" size="1">

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

    </select> <br><br>

    <select name="opttwo" id="bbb" size="1">

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

    </select> <br><br>

    <select name="optthree" id="ccc" size="1">

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

    </select> <br><br>

  </form>

  <script>

    var stateObject = {

      "Maharashtra" : {

        "Mumbai" : ["Kalyan","Wadala"],

        "Pune" : ["Saniwarvada","Shivneri"]

      },

      "Gujarat" : {

        "Ahmedabad" : ["Satellite","Kakariya"]

      }

    }

    window.onload = function() {

      var aaa = document.getElementById("aaa"),

      bbb = document.getElementById("bbb"),

      ccc = document.getElementById("ccc");

      for(var state in stateObject) {
```

```

        aaa.options[aaa.options.length] = new Option(state, state);
    }
    aaa.onchange = function() {
        bbb.length = 1;
        ccc.length = 1;
        if(this.selectedIndex < 1) {
            bbb.options[0].text = "Select City";
            ccc.options[0].text = "Select Area";
            return;
        }
        bbb.options[0].text = "Select City";
        for(var citi_name in stateObject[this.value]) {
            bbb.options[bbb.options.length] = new Option(citi_name, citi_name);
        }
        if(bbb.options.length == 2) {
            bbb.selectedIndex = 1;
            bbb.onchange();
        }
    }
    aaa.onchange();
    bbb.onchange = function() {
        ccc.length = 1;
        if(this.selectedIndex < 1) {
            ccc.options[0].text = "Select Area";
            return;
        }
        ccc.options[0].text = "Select Area";
        var cities = stateObject[aaa.value][this.value];
    }

```

```

        for(var i = 0; i < cities.length; i++) {
            ccc.options[ccc.options.length] = new Option(cities[i],cities[i]);
        }
        if(ccc.optionslength == 2) {
            ccc.selectedIndex = 1;
            ccc.onchange();
        }
    }
}
</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;
        }
    </style>

```

```
#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)">Fac
ebook</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">

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

```

```
<title>Document</title>

</head>

<body onload="display()">

  <center>

    <a href="javascript: LinkBanner()"></a>

  </center>

  <script>

    Banners = new Array("banner1.jpg","banner2.jpg","banner3.jpg","banner4.jpg");

    BannerLink = new
Array('google.com/', 'facebook.com/', 'instagram.com/', 'twitter.com/');

    currentBanner = -1;

    function LinkBanner() {

      document.location.href = "http://www." + BannerLink[currentBanner];

    }

    function display() {

      if(document.images) {

        currentBanner++;

        if(currentBanner == Banners.length) {

          currentBanner = 0;

        }

        document.rotateBanner.src = Banners[currentBanner];

        setTimeout("display()",1000);

      }

    }

  </script>

</body>

</html>
```

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">

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

  <title>Document</title>

</head>

<body>

  <center>

    <div>

      

      

      

      <br><br>

      <button onclick="plusDiv(-1)">&#10094; Back</button>

      <button onclick="plusDiv(1)">Forward &#10095;</button>

    </div>

    <script>

      var slideIndex = 1;

      showDivs(slideIndex);

      function plusDiv(n) {

        showDivs(slideIndex += n);

      }

      function showDivs(n) {
```

```
var i;

var x = document.getElementsByClassName("mySlides");

if(n < 1) {

    slideIndex = x.length;

}

if(n > x.length) {

    slideIndex = 1;

}

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

    x[i].style.display = "none";

}

x[slideIndex-1].style.display = "block";

}

</script>

</center>

</body>

</html>
```