CSS PRACTICAL LIST

Q. 1 (a) Write simple JavaScript with HTML for arithmetic expression evaluation.

```
a. <!DOCTYPE html>
<html lang="en">
<head>
    <title>Arithmetic Operations</title>
</head>
<body>
    <h1>Arithmetic Operations Example</h1>
   <script>
        // Hardcoded values for operations
        var num1 = 10;
       var num2 = 5;
        // Addition
        var addResult = num1 + num2;
        document.write("Addition (10 + 5): " + addResult + "<br>");
        // Subtraction
        var subResult = num1 - num2;
        document.write("Subtraction (10 - 5): " + subResult + "<br>");
        // Multiplication
        var mulResult = num1 * num2;
        document.write("Multiplication (10 * 5): " + mulResult + "<br>");
        // Division
        var divResult = num1 / num2;
        document.write("Division (10 / 5): " + divResult + "<br>");
        // Modulus
        var modResult = num1 % num2;
        document.write("Modulus (10 % 5): " + modResult + "<br>");
    </script>
</body>
</html>
```

(b) Write a JavaScript to create pull-down menu with four options[AICTE,MSBTE,GOOGLE] Once the user will select one of the then user will be redirected to that site.

```
b.
<html>
<head>
<title>HTML Form</title>
<script language="javascript" type="text/javascript">
function getPage(choice)
{
page=choice.options[choice.selectedIndex].value;
if(page != "")
{
window.location=page;
}
}
</script>
</head>
<body>
<form name="myform" action="" method="post">
Select Your Favourite Website:
<select name="MenuChoice" onchange="getPage(this)">
<option
value="https://www.google.com">Google</option>
<option
value="https://www.msbte.org.in">MSBTE</option>
value="https://www.yahoo.com">Yahoo</option>
</form>
</body>
</html>
```

Q.2. (a) Write a JavaScript code to illustrate comparision operator.

```
<h1>Comparison Operators in JavaScript</h1>
    <script>
        // Define some example variables
        var a = 10;
        var b = 5;
        var c = "10";
        var d = true;
        // Using comparison operators
        document.write("a = " + a + ", b = " + b + ", c = " + c + ", d = " + d +
"<br>>");
        // Equal to (==)
        document.write("a == b: " + (a == b) + "\langle br \rangle"); // False: 10 is not equal
to 5
        document.write("a == c: " + (a == c) + "<br>"); // True: 10 == '10'
(loose equality checks value)
        // Strict equal to (===)
        document.write("a === b: " + (a === b) + "<br>"); // False: 10 is not
strictly equal to 5
        document.write("a === c: " + (a === c) + "<br>"); // False: 10 is not
strictly equal to '10' (different types)
        // Not equal to (!=)
        document.write("a != b: " + (a != b) + "<br>"); // True: 10 is not equal
to 5
        document.write("a != c: " + (a != c) + "<br>"); // False: 10 == '10'
(loose inequality checks value)
        // Strict not equal to (!==)
        document.write("a !== b: " + (a !== b) + "<br>"); // True: 10 is not
strictly equal to 5
        document.write("a !== c: " + (a !== c) + "<br>"); // True: 10 is not
strictly equal to '10' (different types)
        // Greater than (>)
        document.write("a > b: " + (a > b) + "<br>"); // True: 10 is greater than
5
        // Less than (<)</pre>
        document.write("a < b: " + (a < b) + "<br>"); // False: 10 is not less
than 5
```

```
// Greater than or equal to (>=)
    document.write("a >= b: " + (a >= b) + "<br>"); // True: 10 is greater
than or equal to 5

// Less than or equal to (<=)
    document.write("a <= b: " + (a <= b) + "<br>"); // False: 10 is not less
than or equal to 5

// Logical comparisons with booleans
    document.write("d == true: " + (d == true) + "<br>"); // True: d is true
    document.write("d === true: " + (d === true) + "<br>"); // True: d is
strictly true
    </script>

</body>
</html>
```

(b) Create a webpage with Text and image rollovers effects.

a.

b.

```
<html>
<head>
<title>
rollovers</title>
</head>
<body>

<a><img height="500" src="motivation.png" width="900"
name="clr"></a>

<a onmouseover="document.clr.src='blue.png' ">
<b><u>Motivational book</u></b></a>
<br>
<br/>
<br
```

Q. 3 (a) Write a Code to illustrate use of Switch case in JavaScript.

a.

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Switch Case Example</title>
</head>
<body>
    <h1>Switch Case in JavaScript</h1>
    <script>
        // Example: Day of the week using switch case
        var n = prompt("Enter any Number from 1 to 7:"); // You can change the
value to test different days (1-7)
        var day = parseInt(n);
        switch (day) {
            case 1:
                document.write("Today is Monday.<br>");
                break;
            case 2:
                document.write("Today is Tuesday.<br>");
                break;
            case 3:
                document.write("Today is Wednesday.<br>");
                break;
            case 4:
                document.write("Today is Thursday.<br>");
                break;
            case 5:
                document.write("Today is Friday.<br>");
```

(b) Write a HTML Script that will display list containing options such as Red, Green, Blue and yellow. Write a JavaScript program such that when the user selects any option . It will change the background color of webpages

b.

```
<html>
<body>
<label for="color">Choose a Background Color:</label>
<select name="color" id="color" class="color" onchange="changeColor()">
<option value="red">Red</option>
<option value="green">Green</option>
<option value="blue">Blue</option>
<option value="yellow">Yellow</option>
</select>
<script type="text/javascript">
function changeColor() {
var color = document.getElementById("color").value;
switch(color){
case "green":
document.body.style.backgroundColor = "green";
break;
```

```
case "red":
document.body.style.backgroundColor = "red";
break;
case "blue":
document.body.style.backgroundColor = "blue";
break;
case "yellow":
document.body.style.backgroundColor = "yellow";
break;
default:
document.body.style.backgroundColor = "white";
break;
}
}
</script>
</body>
</html>
```

Q.4 (a) Write a JavaScript function that will open new window when the user will clicks on the button.

```
<html>
<body>
<button onclick="openWin()">Open "New Window"</button>
<script>
    var myWindow;
    function openWin()
    {
    myWindow = window.open("", "myWindow", "width=400,height=400");
    myWindow.document.write("Hello Everyone.Welcome to new window.");
    }
</script>
</body>
</html>
```

(b) Write a script for creating following frame structure.

When user click on Frame2 links corresponding data appears in Frame3.

Frame 1				
Frame 2	Frame3			
• Fruits				
Flowers				
• Cities				

b.

```
<html>
<head>
<title>Frame Demo</title>
</head>
<body>
FRAME 1
FRAME 2
<l
<1i>>
 <a href="fruits.html" target="mainframe">FRUITS</a>
<
 <a href="flowers.html" target="mainframe">FLOWERS</a>
<
 <a href="cities.html" target="mainframe">CITIES</a>
FRAME 3<BR>
<iframe name="mainframe"></iframe>
```

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

Q. 5. (a) Create a webpage to implement Intrinsic JavaScript Function.

```
a.
```

```
<html>
<head>
<title>Intrinsic Functions</title>
</head>
<body>
<form name="frm1" action="" method="post">
Name<input type="text" name="t1"/><br>
Age<input type="text" name="t2"/><br>
<img src="submit.png" height="40" width="50"</pre>
onclick="javascript:document.forms.frm1.submit()"/>
<img src="reset.png" height="40" width="50"</pre>
onclick="javascript:document.forms.frm1.reset()"/>
</form>
</body>
</html>
```

OR

(b) Write a JavaScript code to display all characters of string in lowercase.

b.

Q. 6.(a)Write HTML code to design a form that displays textbox for accepting Aadhar Card No. and a Submit button. Aadhar card No. should contain 12 digits in the format nnnn.nnnn. Write JavaScript code to validate the Aadhar Card No.. When the user clicks on SUBMIT button.

a.

```
function validateAadhaar() {
    var aadhaar = document.getElementById("aadhaar").value;
    var aadhaarPattern = /^\d{4}\.\d{4}\$/;

    if (aadhaarPattern.test(aadhaar)) {
        alert("Aadhaar number is valid.");
    } else {
        alert("Please enter a valid 12-digit Aadhaar number in the format nnnn.nnnn.nnnn");
    }
    }
    </script>
    </body>
    </html>
```

(b) Write a JavaScript code to implement number is even or odd

b.

Q. 7 (a) Develop JavaScript to implement Array functionalities.(unshift, shift, push, pop).

```
<!DOCTYPE html>
<html>
<head>
    <title>Array Operations</title>
</head>
<body>
    <button onclick="addFirst()">Add to Beginning</button>
    <button onclick="removeFirst()">Remove from Beginning</button>
    <button onclick="addLast()">Add to End</button>
    <button onclick="removeLast()">Remove from End</button>
    <script>
        var myArray = [];
        var numElements = parseInt(prompt("Enter the number of elements:"));
        for (var i = 0; i < numElements; i++) {</pre>
            var element = parseInt(prompt("Enter element " + (i + 1) + ":"));
            myArray[i]=element;
        }
        function addFirst() {
            var element = parseInt(prompt("Enter element to add:"));
            myArray.unshift(element);
            displayArray();
        }
        function removeFirst() {
            myArray.shift();
            displayArray();
        }
        function addLast() {
            var element = parseInt(prompt("Enter element to add:"));
            myArray.push(element);
            displayArray();
        }
        function removeLast() {
            myArray.pop();
            displayArray();
        }
        function displayArray() {
```

```
document.getElementById("result").innerHTML = "Array: " + myArray;
}

displayArray();
  </script>
  </body>
  </html>
```

(b) Write a Javascript code to demonstrate Evaluate checkbox.

```
<html>
 <head>
 <title>HTML Form</title>
 <script language="javascript" type="text/javascript">
  function selection()
  var x ="You selected: ";
  with(document.forms.myform)
  {
   if(a.checked == true)
     x+= a.value+ " ";
   if(b.checked == true)
     x+= b.value+ " ";
   if(o.checked == true)
     x+= o.value+ " ";
   if(p.checked == true)
     x+= p.value+ " ";
    if(g.checked == true)
```

```
x+= g.value+ " ";
   }
   document.write(x);
  }
  }
  </script>
 </head>
 <body>
  <form name="myform" action="" method="post">
     Select Your Favourite Fruits: <br>
     <input type="checkbox" name="a" value="Apple">Apple
     <input type="checkbox" name="b" value="Banana">Banana
     <input type="checkbox" name="o" value="Orange">Orange
     <input type="checkbox" name="p" value="Pear">Pear
     <input type="checkbox" name="g" value="Grapes">Grapes
     <input type="reset" value="Show" onclick="selection()">
  </form>
 </body>
</html>
  </form>
 </body>
</html>
```

Q. 8 (a) Write a JavaScript code to implement number is even or odd.

a.

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

(b) Develop a webpage for validation of form fields using regular expressions.

```
<!DOCTYPE html>
<html>
<head>
    <title>Form Validation</title>
</head>
<body>
    <h1>Form Validation</h1>
    <form onsubmit="return validateForm()">
        <label for="name">Name:</label>
        <input type="text" id="name" name="name" required>
        <br><br><br>>
        <label for="email">Email:</label>
        <input type="email" id="email" name="email" required>
        <br><br><br>>
        <label for="password">Password:</label>
        <input type="password" id="password" name="password" required>
        <br><br><br>>
        <input type="submit" value="Submit">
    </form>
    <script>
        function validateForm() {
            var name = document.getElementById("name").value;
            var email = document.getElementById("email").value;
            var password = document.getElementById("password").value;
            var nameRegex = /^[a-zA-Z]+$/;
            var emailRegex = /\S+@\S+\.\S+/;
            var passwordRegex = /^(?=.*\d)(?=.*[a-z])(?=.*[A-Z]).\{8,\}$/;
            if (!nameRegex.test(name)) {
                alert("Name should only contain letters and spaces.");
```

```
return false;
            }
            if (!emailRegex.test(email)) {
                alert("Invalid email format.");
                return false;
            }
            if (!passwordRegex.test(password)) {
                alert("Password must be at least 8 characters long and contain at
least one digit, one lowercase letter, and one uppercase letter.");
                return false;
            }
            return true;
        }
    </script>
</body>
</html>
```

Q. 9.(a) Develop a webpage for implementing Banner.

```
<html >
<head>
<title>Banner Ads</title>
<script>
Banners = new Array('1.png','2.png','3.png');
CurrentBanner = 0;
function DisplayBanners()
{
if (document.images);
{
CurrentBanner++;
if (CurrentBanner == Banners.length)
{
CurrentBanner = 0;
}
document.RotateBanner.src= Banners[CurrentBanner];
setTimeout("DisplayBanners()",1000);
```

```
}
}
</script>
</head>
<body onload="DisplayBanners()" >
<center>
<img src="1.jpg" width="400"
height="75" name="RotateBanner" />
</center>
</body>
```

(b) Develop a webpage for placing the Window on the screen and Working with child window.

```
Parent window code:
```

<!DOCTYPE html>

```
<html>
<head>
    <title>Parent Window</title>
</head>
<body>
    <button onclick="openChildWindow()">Open Child
Window</button>

<script>
    function openChildWindow() {
        window.open("child_window.html", "childWindow",
"width=400,height=300");
    }
    </script>
</body>
</html>
```

Child window code:

```
<!DOCTYPE html>
<html>
<head>
    <title>Child Window</title>
</head>
<body>
    This is a child window.
</body>
</html>
```

- Q. 10. (a) Create a webpage to implement following Form Events.
- 1. Onblur Events
- 2. Onfocus Events.

```
<!DOCTYPE html>
<html>
<head>
<script>
function myFunction(x) {
  x.style.background = "yellow";
}
function myBlurFunction(x) {
  x.style.background = "";
}
</script>
</head>
<body>
  Enter your name: <input type="text" name="f1" onfocus="myFunction(this)"</pre>
onblur="myBlurFunction(this)">
</body>
</html>
```

(b) Write a JavaScript program to create a slide show with the group of four images also simulate the next and previous transition between slides in your JavaScript.

```
<html>
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-</pre>
scale=1.0">
  <title>Slideshow</title>
  <script>
    const imgArray = ['1.jpg', '2.jpg','3.jpg','4.jpg'];
    let imgIndex = 0;
    function displayImg(num) {
      imgIndex += num;
      if (imgIndex > imgArray.length - 1) {
         imgIndex = 0;
      if (imgIndex < 0) {
         imgIndex = imgArray.length - 1;
      }
      document.getElementById('slide').src = imgArray[imgIndex];
    }
    window.onload = function() {
      document.getElementById('prevBtn').addEventListener('click', ()
=> displayImg(-1));
      document.getElementById('nextBtn').addEventListener('click', ()
=> displayImg(1));
  </script>
</head>
<body>
```

Q. 11 (a) Write a JavaScript to check whether passed number is palindrome or not.

```
<!DOCTYPE html>
<html>
<head>
  <title>Palindrome Number Checker</title>
</head>
<body>
  <input type="number" id="inputNumber" placeholder="Enter a number">
  <button onclick="checkPalindrome()">Check</button>
  <script>
    function checkPalindrome() {
      const num = parseInt(document.getElementById("inputNumber").value);
      const str = num.toString();
      const reversedStr = str.split('').reverse().join('');
      const reversedNum = parseInt(reversedStr);
      if (num === reversedNum) {
        alert(num + " is a palindrome number.");
      } else {
        alert(num + " is not a palindrome number.");
      }
  </script>
</body>
</html>
```

(b) Create a Webpage Student Registration form using Form Elements.

```
<!DOCTYPE html>
<html>
<head>
    <title>Engineering Student Registration Form</title>
</head>
<body>
    <h1>Engineering Student Registration Form</h1>
    <form action="process_form.php" method="post">
        <label for="name">Name:</label>
        <input type="text" id="name" name="name" required>
        <br><br><br>>
        <label for="email">Email:</label>
        <input type="email" id="email" name="email" required>
        <br><br><br>>
        <label for="phone">Phone Number:</label>
        <input type="tel" id="phone" name="phone" pattern="[0-9]{10}" required>
        <br><</pre>
        <label for="address">Address:</label>
        <textarea id="address" name="address" required></textarea>
        <br><br><br>>
        <label for="program">Program:</label>
        <select id="program" name="program" required>
            <option value="">Select Program</option>
            <option value="Computer Science">Computer Science</option>
            <option value="Electrical Engineering">Electrical
Engineering</option>
            <option value="Mechanical Engineering">Mechanical
Engineering</option>
            <option value="Civil Engineering">Civil Engineering</option>
            </select>
        <br><br><br><
        <label for="year">Year of Study:</label>
        <select id="year" name="year" required>
            <option value="">Select Year</option>
```

```
<option value="1">1st Year</option>
            <option value="2">2nd Year</option>
            <option value="3">3rd Year</option>
            <option value="4">4th Year</option>
        </select>
        <br><br><br><
        <label>Programming Languages:</label>
        <input type="checkbox" name="languages[]" value="Python"> Python
        <input type="checkbox" name="languages[]" value="Java"> Java
        <input type="checkbox" name="languages[]" value="C++"> C++
        <input type="checkbox" name="languages[]" value="JavaScript"> JavaScript
        <br><</pre>
        <input type="submit" value="Submit">
    </form>
</body>
</html>
```

Q. 12 (a) Develop a webpage for implementing Status bars.

```
<!DOCTYPE html>
<html>
<head>
<script type="text/javascript">
window.status="Welcome to Home Page";
</script>
</head>
<body>
<h1>Hello, welcome to JavaScript</h1>
</body>
</html>
```

OR

(b) Write a JavaScript code to implement web page protection.

```
<html>
<head>
<title> Disanling Right Mouse button</title>
<script>
```

```
document.addEventListener('contextmenu', event => event.preventDefault());
</script>
</head>
<body>
<h1>  Disabling the right click of mouse button</h1>
</body>
</html>
```

Q. 13 (a) Write a Java script to create person object with properties firstname, lastname, age, eyecolor, delete eyecolor property and display remaining properties of person object.

```
<!DOCTYPE html>
<html>
<head>
    <title>Object Demonstration</title>
</head>
<body>
    <script>
        var person = {
            firstName: "John",
            lastName: "Doe",
            age: 30,
            eyeColor: "blue"
        };
        document.write("Before deletion:<br>");
        document.write("First Name: " + person.firstName + "<br>");
        document.write("Last Name: " + person.lastName + "<br>");
        document.write("Age: " + person.age + "<br>");
        document.write("Eye Color: " + person.eyeColor + "<br>");
        delete person.eyeColor;
        document.write("<br>After deletion:<br>");
        document.write("First Name: " + person.firstName + "<br>");
        document.write("Last Name: " + person.lastName + "<br>);
        document.write("Age: " + person.age);
    </script>
```

```
</body>
```

(b) Write a JavaScript function to check the first character of a string is uppercase or not.

```
<html>
<body>
<script>
function upper_case(str)
   regexp = /^[A-Z]/;
  if (regexp.test(str))
      document.write(str+"'s first character is uppercase");
    }
    else
    document.write(str+"'s first character is not uppercase");
}
var str=prompt("Enter any String :");
upper_case(str);
</script>
</body>
</html>
```

Q. 14 (a) Write a Java script that initializes an array called flowers with the names of 3 flowers. The script then displays array elements.

(b) Write a JavaScript program that will remove the duplicate element from an array.

```
<!DOCTYPE html>
<html>
<head>
    <title>Remove Duplicates</title>
</head>
<body>
    <script>
        var arr = ["scale", "happy", "strength", "peace", "happy", "happy"];
        document.write("<h4>"+"Array before removing duplicates: "+"</h4>" + arr
+ "<br>");
        function removeDuplicates(arr) {
            var unique = [];
            for (var i = 0; i < arr.length; i++) {</pre>
                if (!unique.includes(arr[i])) {
                    unique.push(arr[i]);
                }
            }
```

```
return unique;
}

var uniqueArray = removeDuplicates(arr);
    document.write("<h4>"+"Array after removing duplicates:"+ "</h4>"+
uniqueArray);
    </script>
</body>
</html>
```

Q. 15(a) Write Javascript to call function from HTML.

OR

(b) Write a JavaScript that accents user's first name and domain name of Organization from user. The JavaScript then forms email address as <firstname@domain> name and displays the results in the browser window.

```
<html>
```

```
<head>
     <script>
  //Email Address Function
function myemail()
  var s1 = document.getElementById("first").value;
  var s2 = document.getElementById("domain").value;
  var s3=s1+"@"+s2;
  document.getElementById("email").innerHTML = s3;
}
   </script>
  </head>
  <body>
      First Name: <input id="first">
     Domain Name: <input id="domain">
     <button onclick="myemail()">create email id</button>
            Email ID is

</body>
</html>
```

Q. 16 (a) Write a java script to demonstrate the use of "with" clause.

```
<!DOCTYPE html>
<html>
<head>
    <title>Using with Statement</title>
</head>
<body>
    <script>
        var person = {
            name: "Abc",
            age: 18
        };
        with (person) {
            document.write(name);
            document.write("<br>");
            document.write(age);
        }
```

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

(b) Write a javascript such that color of the background is changed after every 5 seconds.(use setInterval() method).

```
<!DOCTYPE html>
<html>
<head>
    <title>Color Changing Page</title>
    <script>
        function changeColor() {
            var colors = ["red", "green", "blue", "yellow", "purple"];
            var index = 0;
            setInterval(() => {
                document.body.style.backgroundColor = colors[index];
                index = (index + 1) % colors.length;
            }, 5000);
        }
        window.onload = changeColor;
    </script>
</head>
<body>
    </body>
</html>
```

Q. 17 (a) Write a JavaScript program that will print even numbers from 1 to 20.

(b) Write a javascript to demonstrate Associative array.

```
<!DOCTYPE html>
<html>
<head>
    <title>Associative Array Example</title>
</head>
<body>
    <script>
        var person = {
            firstName: "John",
            lastName: "Doe",
            age: 30,
            city: "New York"
        };
        document.write("First Name: " + person.firstName + "<br>");
        document.write("Last Name: " + person.lastName + "<br>");
        document.write("Age: " + person.age + "<br>");
        document.write("City: 1 " + person.city);
    </script>
</body>
</html>
```

Q. 18 (a) Write a javascript code to whether passed string is palindrome or not.

(b) Write a JavaScript function to check whether a given address is a valid IPV4 address or not.

```
<!DOCTYPE html>
<html>
<head>
    <title>IP Address Validation</title>
</head>
<body>
    <script>
        function isValidIPAddress(address) {
            const ipv4Regex = /^(\d{1,3})\.(\d{1,3})\.(\d{1,3})\.(\d{1,3})$/;
            const match = address.match(ipv4Regex);
            if (match) {
                for (let i = 1; i <= 4; i++) {
                    const part = parseInt(match[i]);
                    if (part < 0 || part > 255 || isNaN(part)) {
                        return false;
                    }
                }
                return true;
            } else {
```

```
return false;
}

var ipAddress = prompt("Enter an IP address:");
if (isValidIPAddress(ipAddress)) {
    alert(ipAddress + " is a valid IP address.");
} else {
    alert(ipAddress + " is not a valid IP address.");
}
</script>
</body>
</html>
```

Q. 19 (a) Demonstrate the use of Location Object.

OR

(b) Write an HTML script that displays names of different brands of Laptop and an respective image as :

- Lenovo
- HP
- DELL

Image

```
<html>
   <head>
      <title>
          text rollovers</title>
          <script>
          b=new Image;
          r=new Image;
          g=new Image;
          if(document.images)
          {
          b.src='vv.png';
          r.src='hp.png';
          g.src='dell.png';
          }
          else
          {
          b.src='';
          r.src='';
          g.src='';
          document.clr='';
          }
          </script>
          </head>
          <body>
          <a onmouseover="document.clr.src='vv.png'">
          <b><u>Lenovo</u></b></a>
          <a onmouseover="document.clr.src='hp.png'">
          <b><u>HP</u></b></a>
          <a onmouseover="document.clr.src='dell.png'">
          <b><u>DELL</u></b></a>
          </H2>
```

```
vid width="50%">
<a><img height="200" src="vv.png" width=400" name="clr"></a>

</body>
</html>
```

Q.20 (a) Write a program using sort method of array object.

OR

(b) Write a program for text rollover.

```
<html>
<head></head>
<Body>
<textarea rows="2" cols="50" name="rollovertext" onmouseover="this.value='What is rollover?'"
onmouseout="this.value='Rollover means a webpage changes when the user moves his or her mouse over an object on the page'">
</textarea>
</body>
</html>
```

Q.21 (a) Write a program to accept Student name from user. Using prompt() method.

OR

(b) Write a JavaScript that will replace following specified value with another value in string.

```
String = "I will fail"

Replace "fail" by "pass"
```

```
document.write("old string:"+str+"<br>");
    document.write("new sting:"+newStr);
    </script>
</body>
</html>
```

Q.22 (a) Write a program to print odd numbers from 1 to 100.

OR

(b) Write an HTML script that accepts Amount, Rate of interest and Period from user. When user submits the information a

JavaScript function must calculate and display simple interest in a message box. (Use formula S.I. = PNR/100).

```
<!DOCTYPE html>
<html>
<head>
    <title>Simple Interest Calculator</title>
</head>
<body>
    <h1>Simple Interest Calculator</h1>
    <form onsubmit="calculateInterest(); return false;">
        <label for="amount">Amount:</label>
        <input type="number" id="amount" name="amount" required><br><br>
        <label for="rate">Rate of Interest:</label>
        <input type="number" id="rate" name="rate" required><br><br>
        <label for="period">Period (in years):</label>
        <input type="number" id="period" name="period" required><br><br>
        <input type="submit" value="Calculate">
    </form>
    <script>
        function calculateInterest() {
            var amount = parseFloat(document.getElementById("amount").value);
            var rate = parseFloat(document.getElementById("rate").value);
            var period = parseFloat(document.getElementById("period").value);
            var simpleInterest = (amount * rate * period) / 100;
            alert("Simple Interest: " + simpleInterest);
        }
    </script>
</body>
</html>
```