Chapter 1

1. Creating Object

```html
<html>
  <body>
    <script>
      // Method 1: Single object using object literal
      var student = {
        name : "Ram",
        marks : 99
      };


      // Method 2: Using new key word, using instance of Object
      var emp = new Object();
      emp.name = "Sham";
      emp.salary = 100000;


      // Method 3: Using object constructor
      function car(brand,color){
        this.brand = brand;
        this.color = color;
      }
      c = new car("Audi","Black");
    </script>
  </body>
</html>
```

2. Display the current date and time

```html
<html>
  <body>
    <script>
      var d = new Date();
      var y = d.getFullYear();
      var m = d.getMonth() + 1;
      var dd = d.getDay() + 1;
      var h = d.getHours() + 1;
      var m = d.getMinutes() + 1;
      var s = d.getSeconds() + 1;

      document.write("Current date : " + dd + "/" + m + "/" + y);
      document.write("<br>Current time : " + h + ":" + m + ":" + s);
    </script>
  </body>
</html>
```
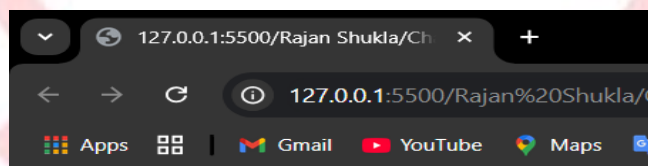
Output :
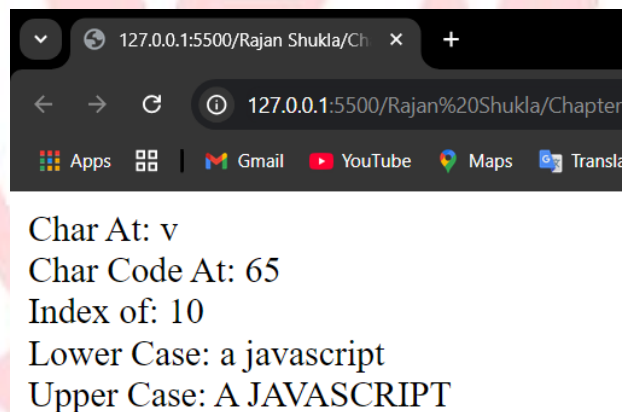

Current date : 4/29/2024
Current time : 3:29:20

3. String Methods

```
<html>
  <body>
    <script>
      var str = "A JavaScript";
      document.write("Char At: " + str.charAt(4)+"<br>");
      document.write("Char Code At: " + str.charCodeAt(0)+"<br>");
      document.write("Index of: " + str.indexOf("p")+"<br>");
      document.write("Lower Case: " + str.toLowerCase()+"<br>");
      document.write("Upper Case: " + str.toUpperCase()+"<br>");
    </script>
  </body>
</html>
```

Output :


```
Char At: v
Char Code At: 65
Index of: 10
Lower Case: a javascript
Upper Case: A JAVASCRIPT
```

4. Simple calculator

```html
<html>
  <body>
    <script>
      var num1 = parseInt(prompt("Enter number 1 : "));
      var num2 = parseInt(prompt("Enter number 2 : "));
      var option = prompt("Enter operation to perform (ex. +,-,*,/) : ");

      switch(option){
        case "+" : alert(num1 + num2);
        break;
        case "-" : alert(num1 - num2);
        break;
        case "/" : alert(num1 / num2);
        break;
        case "*" : alert(num1 * num2);
        break;
      }
    </script>
  </body>
</html>
```
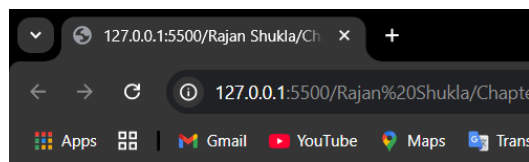
Output :

// alert box according to enter fields //

5. Getters and setters :

```html
<html>
    <body>
        <script>
            var car = {
                Defbrand : "Audi",
                //getter
                get brand(){
                    return this.Defbrand;
                },
                // setters
                set brand(value){
                    this.Defbrand = value;
                },
            };
            //Getter
            document.write("Brand : " + car.Defbrand);
            //setter
            car.brand = "Maruti";
            document.write("<br>Brand : " + car.Defbrand);
        </script>
    </body>
</html>
```
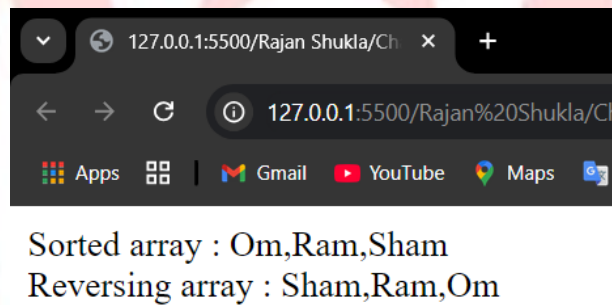
Output :

Brand : Audi
Brand : Maruti

Chapter 2

1. **Sorting and reversing array**

```html
<html>
  <body>
    <script>
      var arr = new Array("Ram","Sham","Om");
      document.write("Sorted array : " + arr.sort());
      document.write("<br>Reversing array : " + arr.reverse());
    </script>
  </body>
</html>
```
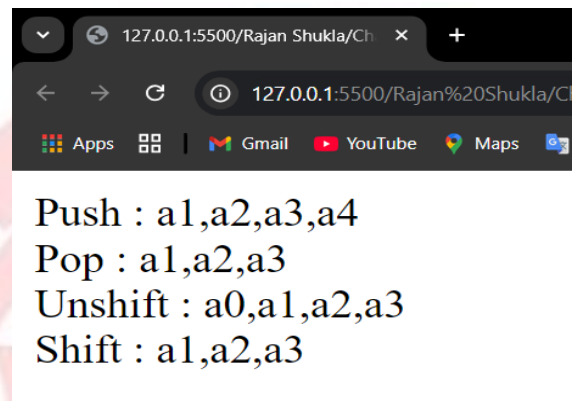
Output :

Sorted array : Om,Ram,Sham
Reversing array : Sham,Ram,Om

2. **Adding and removing elements from array**

```html
<html>
  <body>
    <script>
      var arr = new Array("a1","a2","a3");
      arr.push("a4");
      document.write("Push : " + arr);
      arr.pop();
      document.write("<br>Pop : " + arr);
```

```
            arr.unshift("a0");

            document.write("<br>Unshift : " + arr);

            arr.shift();

            document.write("<br>Shift : " + arr);

        </script>

    </body>

</html>
```

Output :

3. **Calling function from HTML**
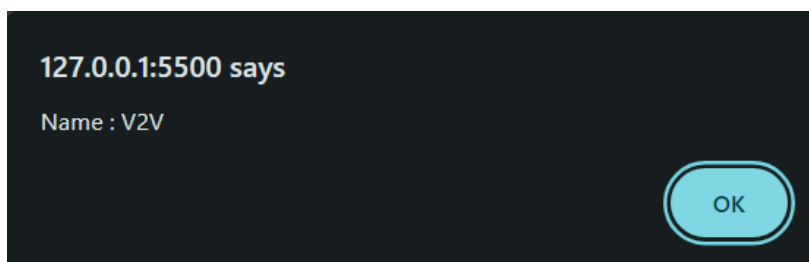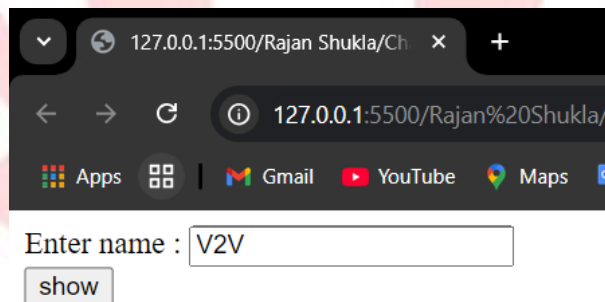
```
<html>

    <head>

        <script>

            function welcome(){

                alert("welcome");

            }

            function bye(){

                alert("bye");

            }

        </script>

    </head>

    <body onload="welcome()" onunload="bye()">

    </body>

</html>
```

Chapter 3

1. **Display input contents**

```
<html>
  <head>
    <script>
      function show(){
        var name = document.getElementById("demo").value;
        alert("Name : " + name);
      }
    </script>
  </head>
  <body>
    Enter name : <input type="text" id="demo"><br>
    <button onclick="show()">show</button>
  </body>
</html>
```

Output :

2. Changing style of contents/ elements

(Changing color of text of <p> tag and its background)

```html
<html>
  <head>
    <script>
      function change(){
        var x = document.getElementsByTagName("p");
        var i;
        for(i=0;i<x.length;i++){
          x[i].style.color = "red";
          x[i].style.backgroundColor = "Pink";
        }
      }
    </script>
  </head>
  <body>
    <p>V2V</p>
    <p>Best for diploma</p>
    <button onclick="change()">Change</button>
  </body>
</html>
```
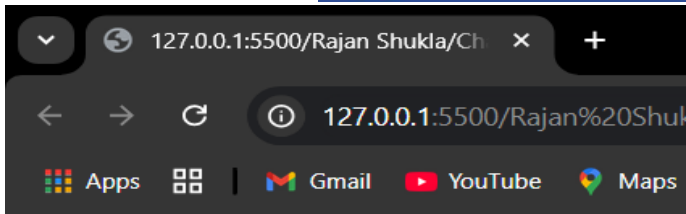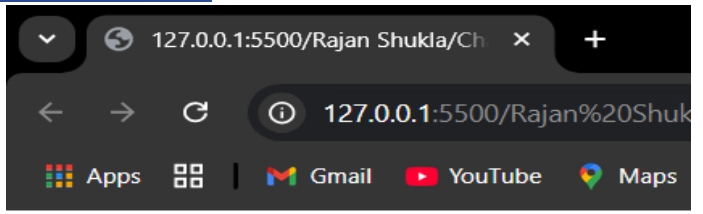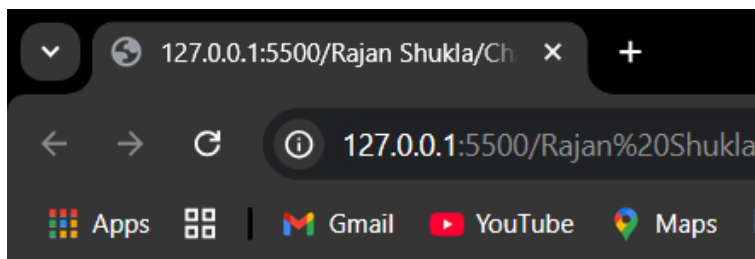
Output :

3. Changing inner text

```
<html>
   <head>
      <script>
         function load(){
            document.getElementById("demo").innerHTML = "This text is added dynamically";
         }
      </script>
   </head>
   <body onload="load()">
      <p id="demo"></p>
   </body>
</html>
```

Output :

This text is added dynamically

4. All elements of in form

```
<html>

  <body>

    <form>

    Enter your name : <input type="text"><br><br>

    Select gender :

        <input type="radio" name="grp1" checked="true"> Male

        <input type="radio" name="grp1"> Female

        <br><br>


    Select colors :

        <input type="checkbox" name="grp2" checked="true"> Red

        <input type="checkbox" name="grp2"> White

        <input type="checkbox" name="grp2"> Black

        <input type="checkbox" name="grp2"> Yellow

        <br><br>


    Enter address : <br>

    <textarea rows="10" cols="30"></textarea>

    <br><br>


    Select City :

    <select>

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

        <option value="2">Kalyan</option>

        <option value="3">Thane</option>

    </select>

    <br><br>


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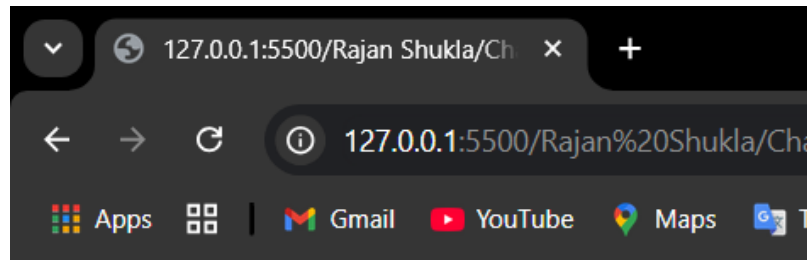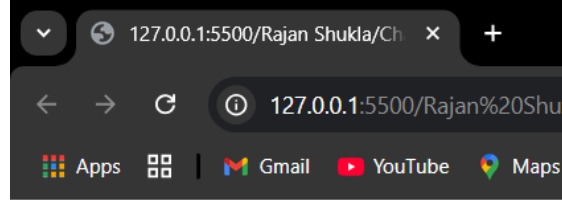
```
    </form>
  </body>
</html>
```

Output :

5. Mouse events

```
<html>
  <body>
    <textarea onmouseover="this.value='Mouse in'" onmouseout="this.value='Mouse out'"></textarea>
  </body>
</html>
```

Output :

Mouse out

Mouse in
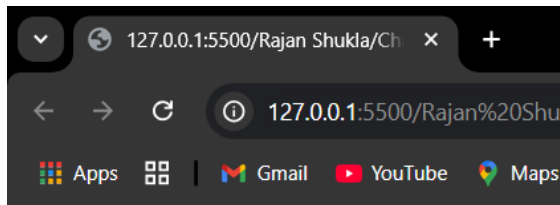
6. Key events

```html
<html>
  <body>
    Enter name : <input type="text" onkeydown="javascript:alert('Key down')"
onkeyup="javascript:alert('Key up')">
  </body>
</html>
```

Output :

Enter name :

127.0.0.1:5500 says

Key down

OK
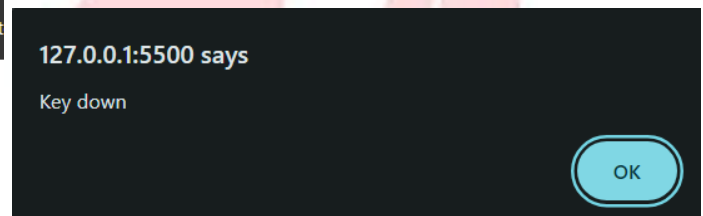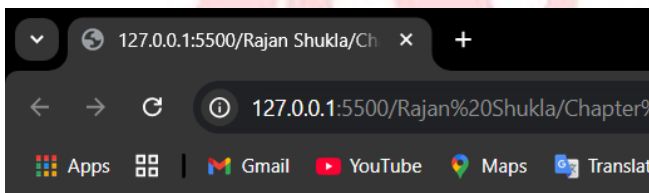
7. Changing option list dynamically

```html
<html>
  <head>
    <script>
      function Change(EventCode){
        with(document.forms.myform){
          if(EventCode == 1){
            OptionList[0].value = 1;
```

```
                OptionList[0].text = "Apple";

                OptionList[1].value = 2;

                OptionList[1].text = "Banana";

                OptionList[2].value = 3;

                OptionList[2].text = "Kiwi";

            }


        if(EventCode == 2){

            OptionList[0].value = 1;

            OptionList[0].text = "Lotus";

            OptionList[1].value = 2;

            OptionList[1].text = "Rose";

            OptionList[2].value = 3;

            OptionList[2].text = "Mogra";

            }

          }

        }

    </script>

  </head>

  <body>

    <form name="myform">

    <select name="OptionList" size="2">

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

       <option value="2">Banana</option>

       <option value="3">Kiwi</option>

    </select>

    <br><br>


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

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

<br>

    <input type="reset">
```
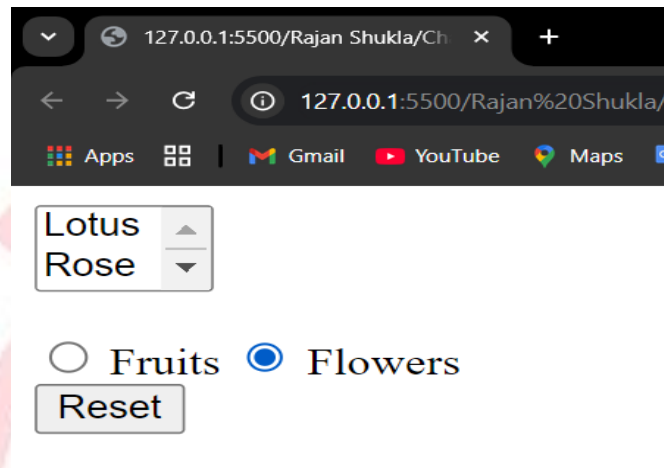
```
      </form>
    </body>
</html>
```

Output :

8. **Enable and disable text field**

```
<html>
  <head>
    <script>
      function change(){
        var x = document.getElementById("demo");
        x.disabled = false;
      }

      function noChange(){
        var x = document.getElementById("demo");
        x.disabled = true;
      }
    </script>
  </head>
  <body>
```

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

<br><br>

<button onclick="change()">Enable</button>

<button onclick="noChange()">Disable</button>
</body>
</html>
```

Output :
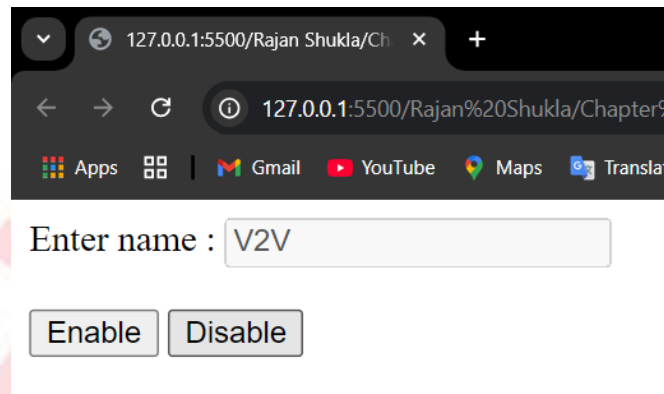
Chapter 4

1. Set, Get, Delete, and Display Cookies

```html
<html>
<head>
  <title>Cookie Manager</title>
  <script>
    function setCookie() {
      document.cookie = "myCookie=myValue;path=/";
    }


    function getCookie() {
      var x = document.cookie;
      alert(x);
    }


    function deleteCookie() {
      // Also for setting expiration date
      document.cookie = "myCookie=; expires=Thu, 01 Jan 1970 00:00:00 UTC; path=/";
    }


    function displayCookies() {
      alert("All Cookies: " + document.cookie);
    }
  </script>
</head>
<body>
  <button onclick="setCookie()">Set Cookie</button>
  <button onclick="getCookie()">Get Cookie</button>
  <button onclick="deleteCookie()">Delete Cookie</button>
  <button onclick="displayCookies()">Display Cookies</button>
```

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

Output :
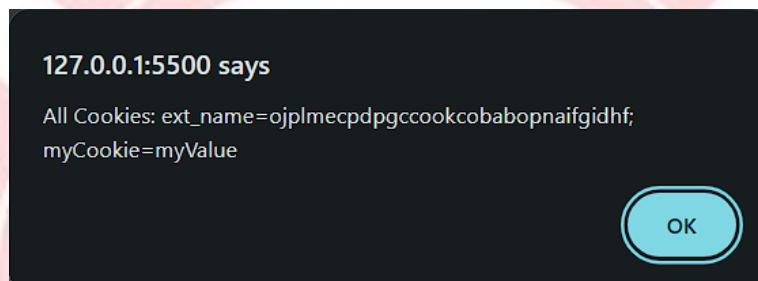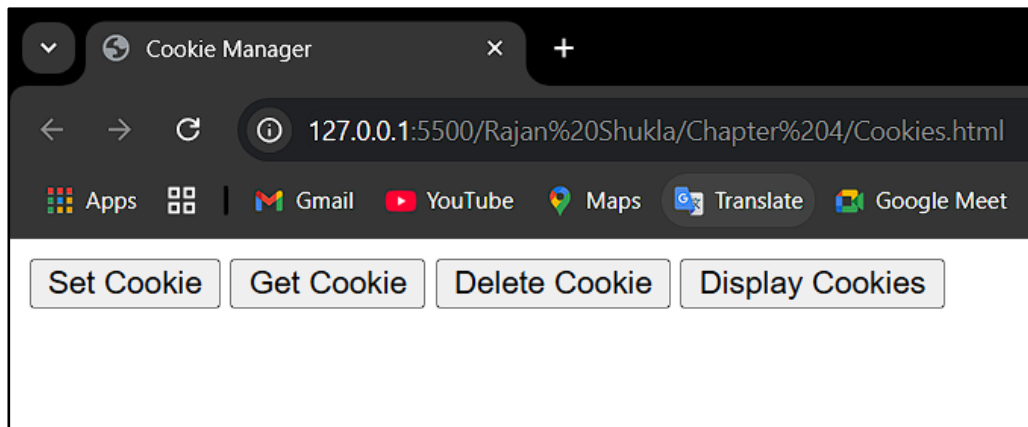
2. Display value and changing color of textbox

```html
<html>
  <head>
    <script>
      function change(){
        var x = document.getElementById("name");
        x.style.backgroundColor = "red";
        alert(x.value);
      }
    </script>
  </head>
  <body>
    <input type="text" id="name">
```

```
    <br><br>

    <button onclick="change()">Click</button>

  </body>

</html>
```

Output :
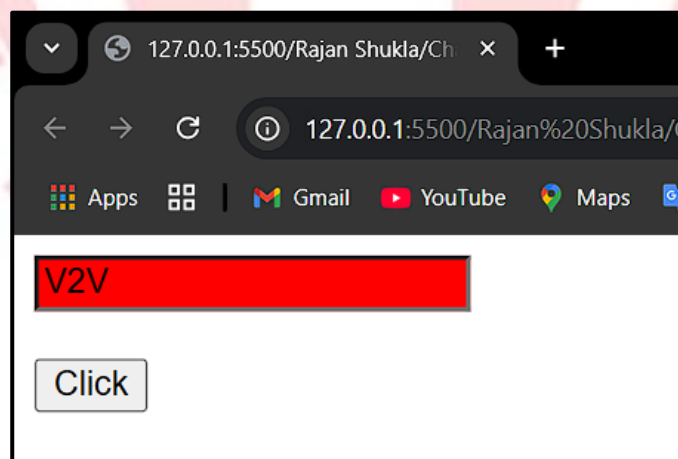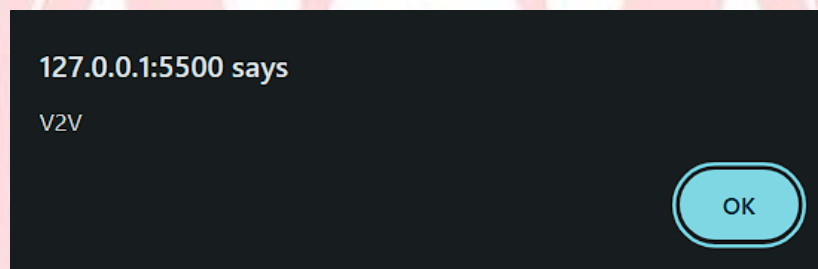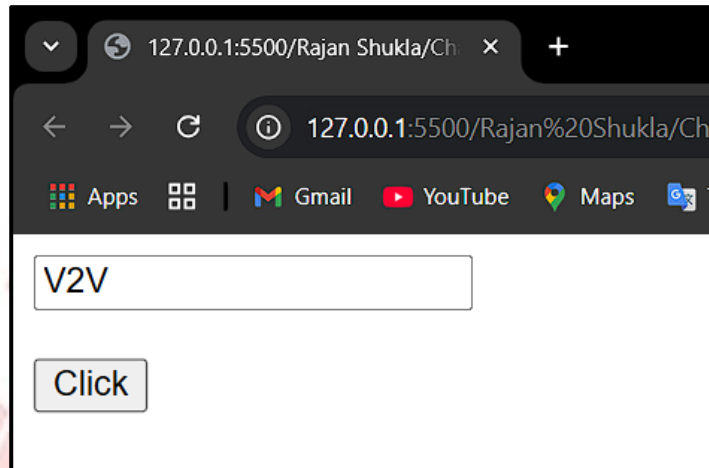
3. Opening and Closing window

```
<html>
<head>
  <title>Open and Close Window</title>
  <script>
    var newWindow;
    function openWin() {
      newWindow = window.open("", "", "width=200,height=100,left=100,top=200");
    }
    function closeWin() {
      newWindow.close();
    }
  </script>
</head>
<body>
  <button onclick="openWin()">Open Window</button>
  <button onclick="closeWin()">Close Window</button>
</body>
</html>
```

Output :
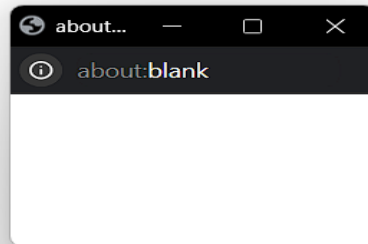
4. scrollBy() scrollTo() moveBy() moveTo()

```html
<html>
<head>
  <title>Window Operations Example</title>
  <script>
    var newWindow;

    function openNewWindow() {
      newWindow = window.open("", "", "width=200,height=200");
      newWindow.document.write("<div style='height: 1500px;'>Scroll and move this window</div>");
    }

    function scrollNewWindow() {
      newWindow.scrollBy(0, 100);
    }

    function scrollToNewWindow() {
      newWindow.scrollTo(0, 600);
    }

    function moveNewWindow() {
      newWindow.moveBy(150, 150);
```

```
        }


    function moveToNewWindow() {

        newWindow.moveTo(300, 200);

    }

    </script>

</head>

<body onload="openNewWindow()">

    <button onclick="scrollNewWindow()">Scroll By 100px</button>

    <button onclick="scrollToNewWindow()">Scroll To 600px</button>

    <button onclick="moveNewWindow()">Move By 150px</button>

    <button onclick="moveToNewWindow()">Move To (300, 200)</button>

</body>

</html>
```

Output :
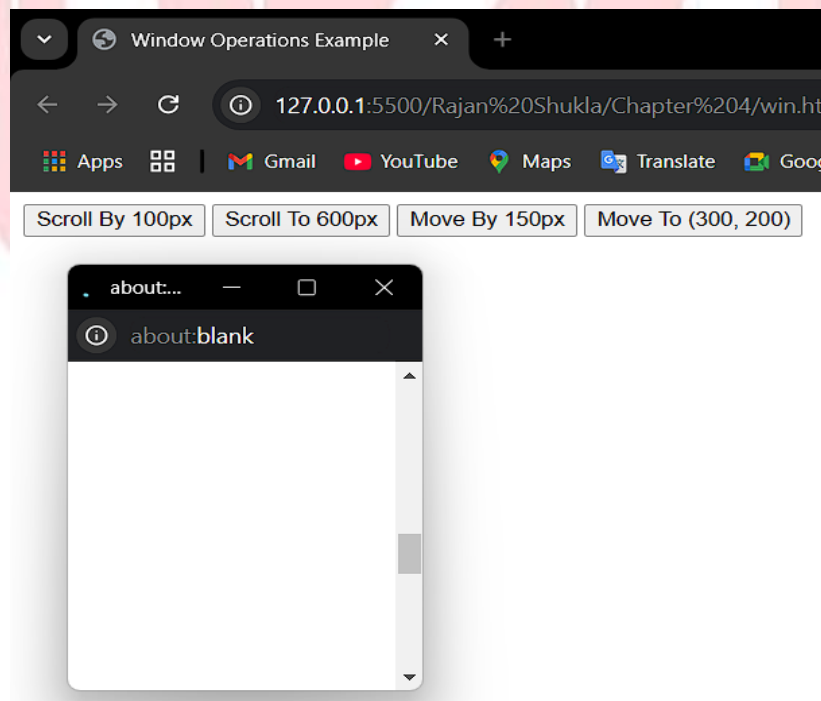
5. Opening multiple windows

```
<html>

<head>

  <title>Window</title>

  <script>

    function show() {

      for (let i = 0; i < 250; i += 50) {

        window.open('', '', 'top=' + (i + 50) + ',width=300,height=200');

      }

    }

  </script>

</head>

<body>

  <button onclick="show()">Show Multiple Windows</button>

</body>

</html>
```

Output :

6. setTimeout() clearTimeout() setInterval() clearInterval()
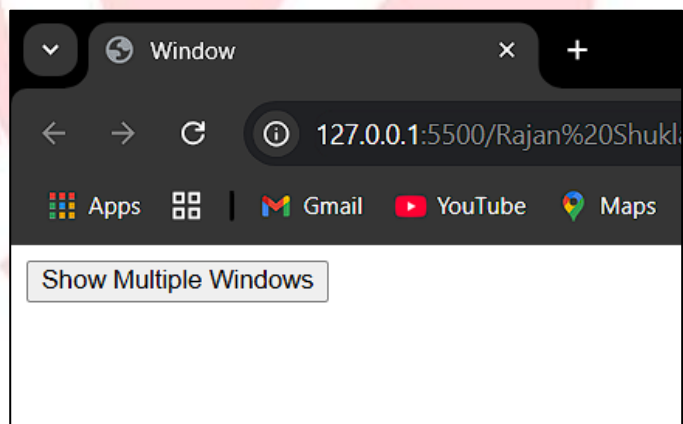
```html
<html>
  <head>
    <script>
    function message(){
        alert("V2V");
    }
    var msg;
    function fun1(){
        msg = setTimeout(message,1000);
    }
    function fun2(){
        clearTimeout(msg);
```

```
    }
    function fun3(){
        msg = setInterval(message,2000);
    }
    function fun4(){
        clearInterval(msg);
    }
    </script>
  </head>
  <body>
    <button onclick="fun1()">setTimeout</button>
    <button onclick="fun2()">clearTimeout</button>
    <button onclick="fun3()">setInterval</button>
    <button onclick="fun4()">clearInterval</button>
  </body>
</html>
```

Output :
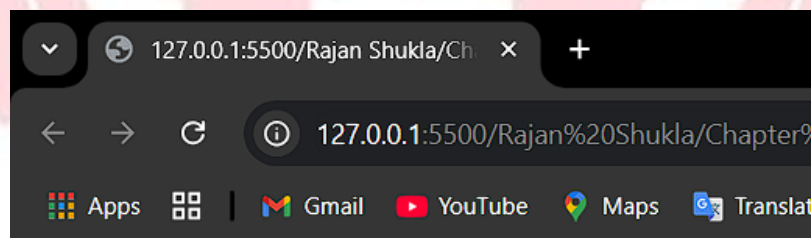
1. Modifiers

```html
<html>

<head>

   <title>Regex Modifiers Example</title>

</head>

<body>

   <script>

      var text = "Hello World\nhello world\nHELLO WORLD";


      document.write("Case-insensitive : " + text.match(/hello/i) + "<br>");


      document.write("Global : " + text.match(/hello/g) + "<br>");


      document.write("Multiline : " + text.match(/hello/m) + "<br>");

   </script>

</body>

</html>
```

Output :
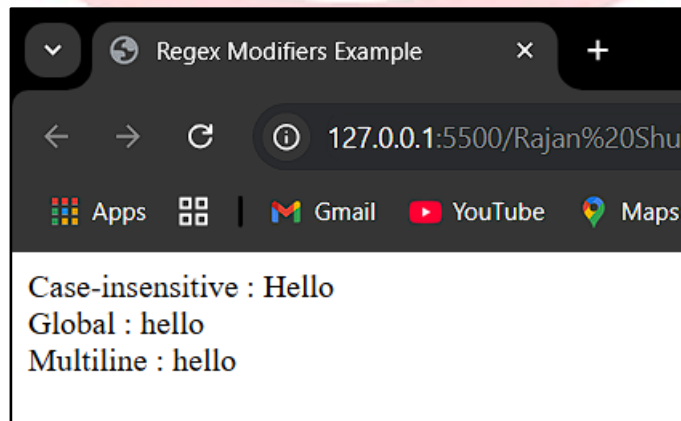
2. Quantifiers'

```html
<html>
  <head>
    <title>Quantifiers</title>
  </head>
  <body>
    <script>
      var str = "100 1000 or 10000";
      document.write("+ (one or more) = " + (/1+/).test(str));

      document.write("<br>* (zero more more) = " + (/2*/).test(str));

      document.write("<br>? (only zero or one) = " + (/1?/).test(str));

      document.write("<br>{N} (only N times in sequence) = " + (/0{8}/).test(str));

      document.write("<br>{2,3} (only 2 or 3 times in sequence) = " + (/0{2,3}/).test(str));

      document.write("<br>{2,} (2 or more times in sequence) = " + (/1{2,}/).test(str));

      document.write("<br>$ (at end) = " + (/0$/).test(str));

      document.write("<br>^ (at beginning) = " + (/^0/).test(str));
    </script>
  </body>
</html>
```

Output :

```
Quantifiers

127.0.0.1:5500/Rajan%20Shukla,

Apps    Gmail    YouTube    Maps

+ (one or more) = true
* (zero more more) = true
? (only zero or one) = true
{N} (only N times in sequence) = false
{2,3} (only 2 or 3 times in sequence) = true
{2,} (2 or more times in sequence) = false
$ (at end) = true
^ (at beginning) = false
```
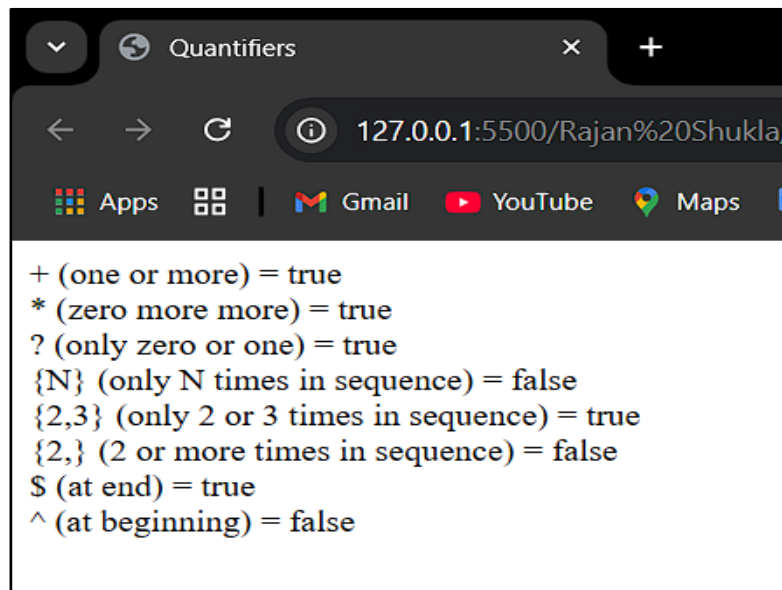
3. Matching digits and words

```html
<html>

  <head>

    <title>Matching</title>

  </head>

  <body>

    <script>

      var digit = "123";

      var p = ",'|{}";

      var word = "hello";


      //digit

      document.write("\d : " + (/\d/).test(digit));

      document.write("<br>\D : " + (/\D/).test(digit));


      //Word

      document.write("<br>\w : " + (/\w/).test(word));
```

```
        document.write("<br>\W : " + (/\W/).test(word));

    </script>

  </body>

</html>
```

Output :
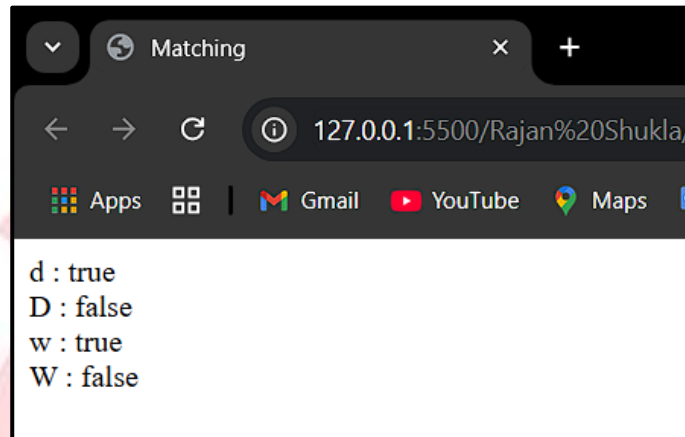
4. Match and Replace

```
<html>

  <head>

    <title>match and replace</title>

  </head>

  <body>

    <script>

      var str = "he is good man";

      document.write("Match : " + str.match(/is/));

      document.write("<br>Replace : " + str.replace(/good/g,"bad"));

    </script>

  </body>

</html>
```

Output :
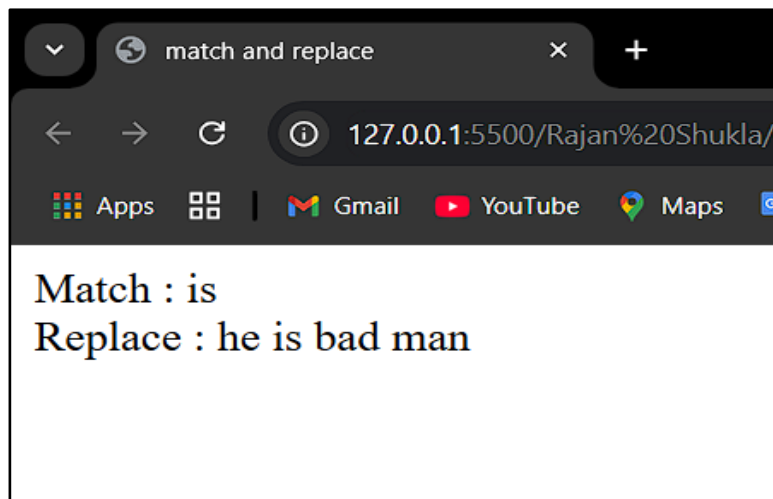
5. Calling function of child window

frame1.html

```
<html>
  <body>
    <button onclick="parent.frame2.show()">Show</button>
  </body>
</html>
```

Frame2.html

```
<html>
  <body>
    frame 2
    <script>
      function show(){
        alert("hii");
      }
    </script>
  </body>
</html>
```

Frame.html

```
<html>
  <frameset rows="50%,50%">
    <frame src="frame1.html">
    <frame src="frame2.html" name="frame2">
  </frameset>
</html>
```

Output :

6. changing content of child window

frame1.html

```
<html>
  <body>
    <button onclick="parent.frame2.show()">Show</button>
  </body>
</html>
```

Frame2.html

```
<html>
```

```html
  <body>

    frame 2

    <script>

      function show(){

        parent.frame2.location.href = "frame3.html";

      }

    </script>

  </body>

</html>
```

frame3.html

```html
<html>

  <body>

    <h1>Frame 3</h1>

  </body>

</html>
```

Frame.html

```html
<html>

  <frameset rows="50%,50%">

    <frame src="frame1.html">

    <frame src="frame2.html" name="frame2">

  </frameset>

</html>
```

Output :

7. Writing in the child window

```
<html>
  <head>
    <script>
      window.onload = function(){
        window.frame2.document.write("<h1>hii</h1>");
      }
    </script>
  </head>
  <frameset rows="50%,50%">
    <frame src="frame1.html"/>
    <frame src="" name="frame2"/>
  </frameset>
</html>
```

Output :
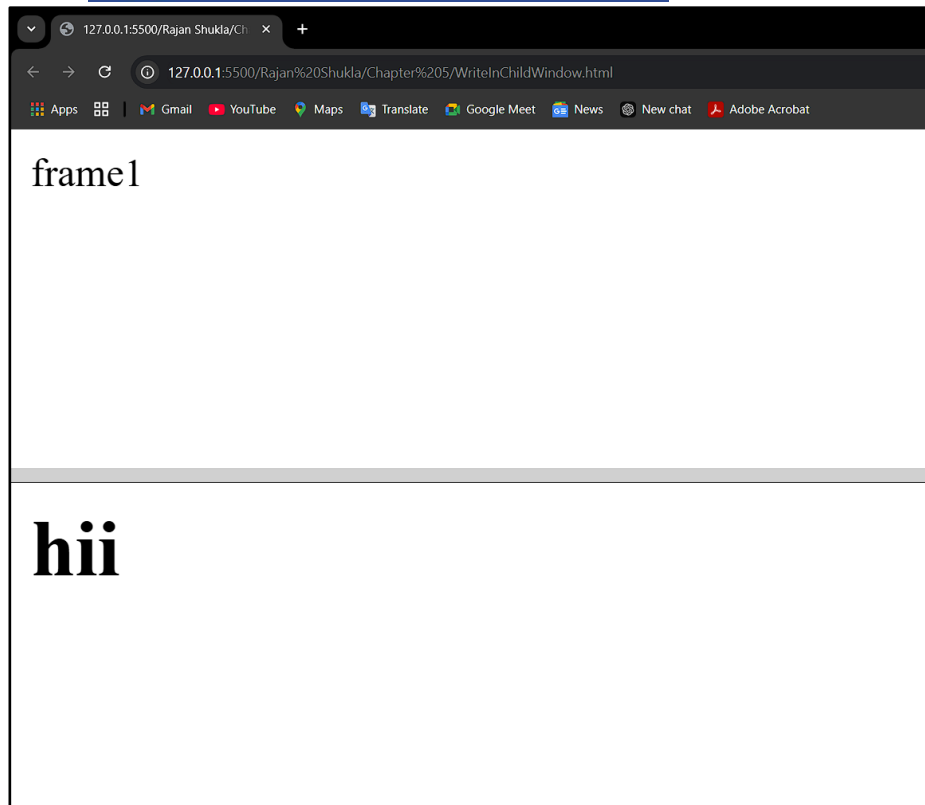
8. Accessing an element of child window
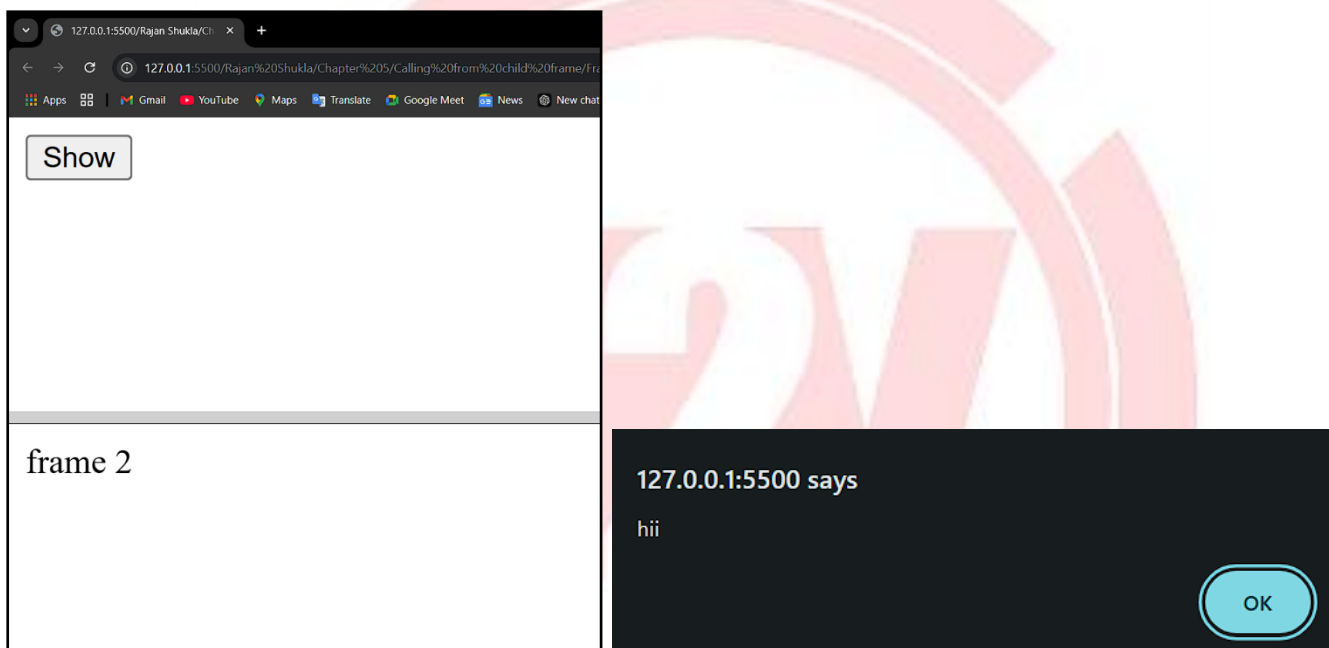
frame1.html

```
<html>
  <body>
    <form name="myForm">
      <input type="text" name="text">
    </form>
  </body>
</html>
```

frame2.html

```
<html>
  <body>
    <script>
      function change(){
```

```
            parent.frame1.myForm.text.value = "V2V";

        }

      </script>

      <button onclick="change()">Change</button>

   </body>

</html>
```
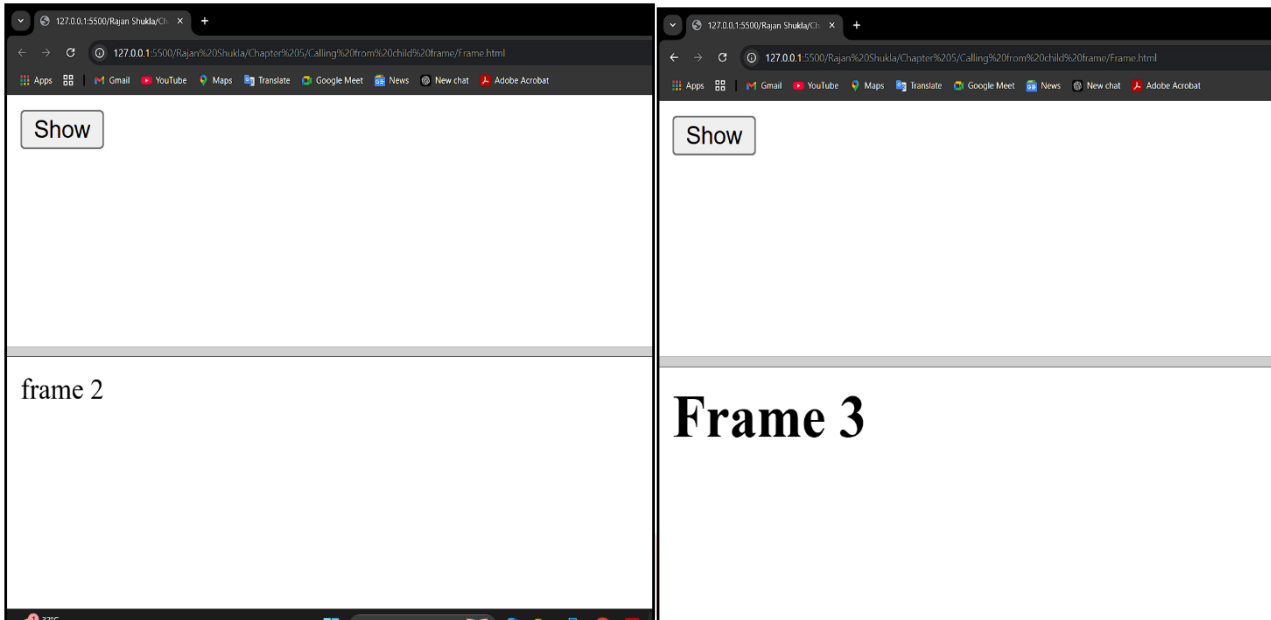
Frame.html

```
<html>

   <frameset rows="50%,50%">

      <frame src="frame1.html" name="frame1"/>

      <frame src="frame2.html"/>

   </frameset>

</html>
```

Output:
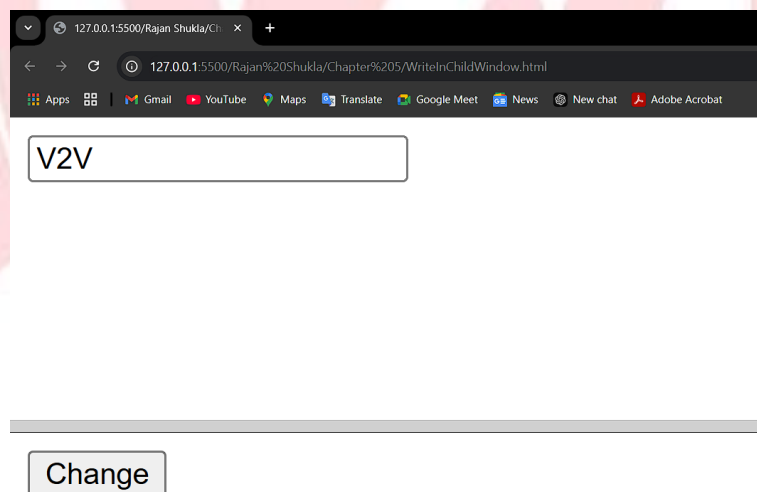
9. Using iframe

```
<html>

   <body>
```

```
    <iframe width="400" height="250" src="https://www.youtube.com/embed/VubDK5nQpeY?si=BQcF9-RzEmU1Xas8"></iframe>

  </body>

</html>
```

Output :

10.   Rollover

```
<html>

  <body>

    <img src="1.jpeg" height="200" width="300" name="img1">

    <br><br>

    <a onmouseover="javascrip:img1.src='1.jpeg'">car 1</a>

    <a onmouseover="javascrip:img1.src='2.jpeg'">car 2</a>

    <a onmouseover="javascrip:img1.src='3.jpeg'">car 3</a>

  </body>

</html>
```

Output :

car 1 car 2 car 3

11.   Regular expression methods

```html
<html>
  <head>
    <title>regular expression methods</title>
  </head>
  <body>
    <script>
      var str = "V2V is best";
      var reg = /V2V/;
      document.write(reg.exec(str));
      document.write("<br>" + reg.test(str));
      document.write("<br>" + reg.toString());
      document.write("<br>" + reg.toSource());
    </script>
  </body>
</html>
```

Output :
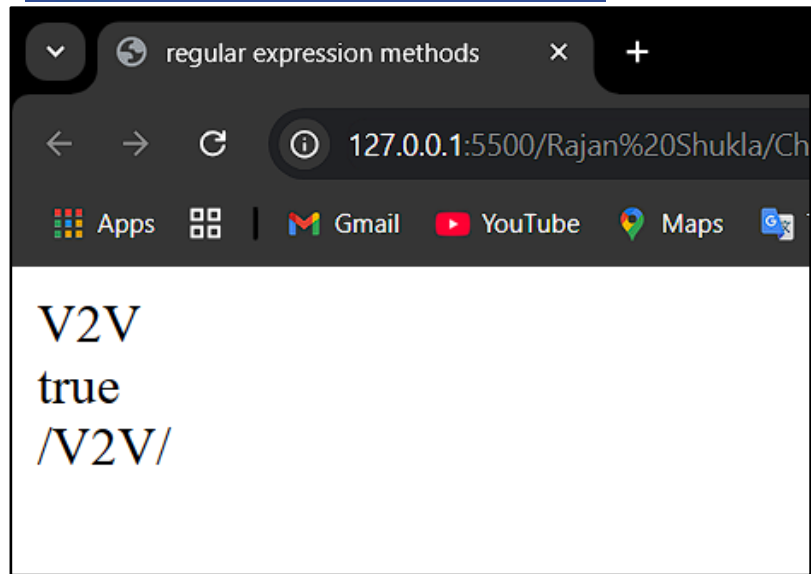
12. Regular expression

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Validation Example</title>

</head>

<body>

    <h2>Validation Form</h2>

    <form id="validationForm">

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

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

        Aadhaar Number:<input type="text" id="aadhaar"><br><br>

        IP Address:<input type="text" id="ip"><br><br>

        Phone Number:<input type="text" id="phone"><br><br>

        Pincode:<input type="text" id="pincode"><br><br>

        <button type="button" onclick="validateForm()">Validate</button>

    </form>
```

```
<script>

  function validateForm() {

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

    var name = document.getElementById("name").value;

    var aadhaar = document.getElementById("aadhaar").value;

    var ip = document.getElementById("ip").value;

    var phone = document.getElementById("phone").value;

    var pincode = document.getElementById("pincode").value;


    var emailPattern = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;

    var namePattern = /^[A-Za-z\s]+$/;

    var aadhaarPattern = /^\d{12}$/;

    var ipPattern = /^(\d{1,3}\.){3}\d{1,3}$/;

    var phonePattern = /^\d{10}$/;

    var pincodePattern = /^\d{6}$/;


    if (!emailPattern.test(email)) {

      alert("Invalid email ID");

    } else if (!namePattern.test(name)) {

      alert("Invalid name");

    } else if (!aadhaarPattern.test(aadhaar)) {

      alert("Invalid Aadhaar number");

    } else if (!ipPattern.test(ip)) {

      alert("Invalid IP address");

    } else if (!phonePattern.test(phone)) {

      alert("Invalid phone number");

    } else if (!pincodePattern.test(pincode)) {

      alert("Invalid pincode");

    } else {

      alert("All inputs are valid");

    }

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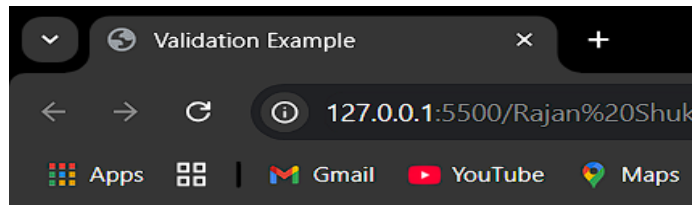
```
    </script>
</body>
</html>
```

Output :

13.   Text rollover

```
<html>
  <head>
    <title>Text rollover</title>
    <script>
      function show1(){
        document.getElementById("text").value = "Mouse in";
      }
      function show2(){
        document.getElementById("text").value = "Mouse out";
      }
    </script>
  </head>
```

```html
<body>
    <textarea id="text" onmouseover="show1()" onmouseout="show2()"></textarea>
  </body>
</html>
```

Output :

Chapter 6

1. Window status

```html
<html>
  <head>
    <title>Status bar</title>
    <script>
      function showStatus(){
        var win = window.open("","myWindow",'height=100,width=100');
        win.status = "V2V";
      }
    </script>
  </head>
  <body onload="showStatus()">
  </body>
</html>
```

2. Simple banner

```html
<html>

  <head>

    <title>Banner</title>

    <script>

      var banners = new Array("c.png","python.png","java.png");

      var count = 0;

      function rotate(){

        count ++;

        if(count == banners.length){

          count = 0;

        }

        document.img1.src = banners[count];

        setTimeout(rotate,1000);

      }

    </script>

  </head>

  <body onload="rotate()">

    <img src="c.png" name="img1" height="200" width="200">

  </body>

</html>
```

Output :
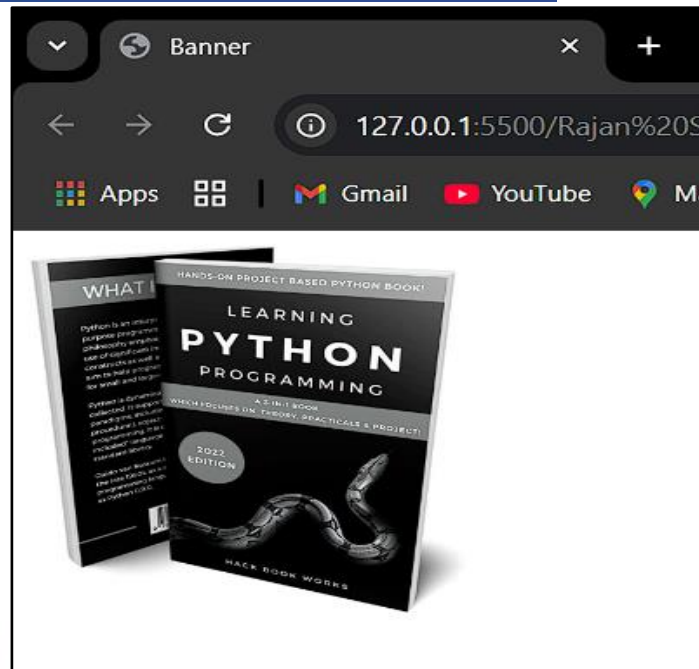
3. Linking Banner

```html
<html>
  <head>
    <title>Link Banner Ads</title>
    <script language="Javascript" type="text/javascript">
      Banners = new Array('c.png','python.png','java.png')
      BannerLink = new Array('google.com/','vpt.edu.in/', 'msbte.org.in/');
      CurrentBanner = 0;
      NumOfBanners = Banners.length;
      function LinkBanner()
      {
        document.location.href ="http://www." + BannerLink[CurrentBanner];
      }
      function DisplayBanners() {
        if (document.images) {
          CurrentBanner++
        if (CurrentBanner == NumOfBanners) {
          CurrentBanner = 0
```

```
            }

        document.RotateBanner.src= Banners[CurrentBanner];

        setTimeout("DisplayBanners()",1000)

        }

    }

  </script>

</head>

<body onload="DisplayBanners()" >

<center>

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

    <img src="c.png" width="300" height="300" name="RotateBanner" />

</a>

</center>

</body>

</html>
```

Output :
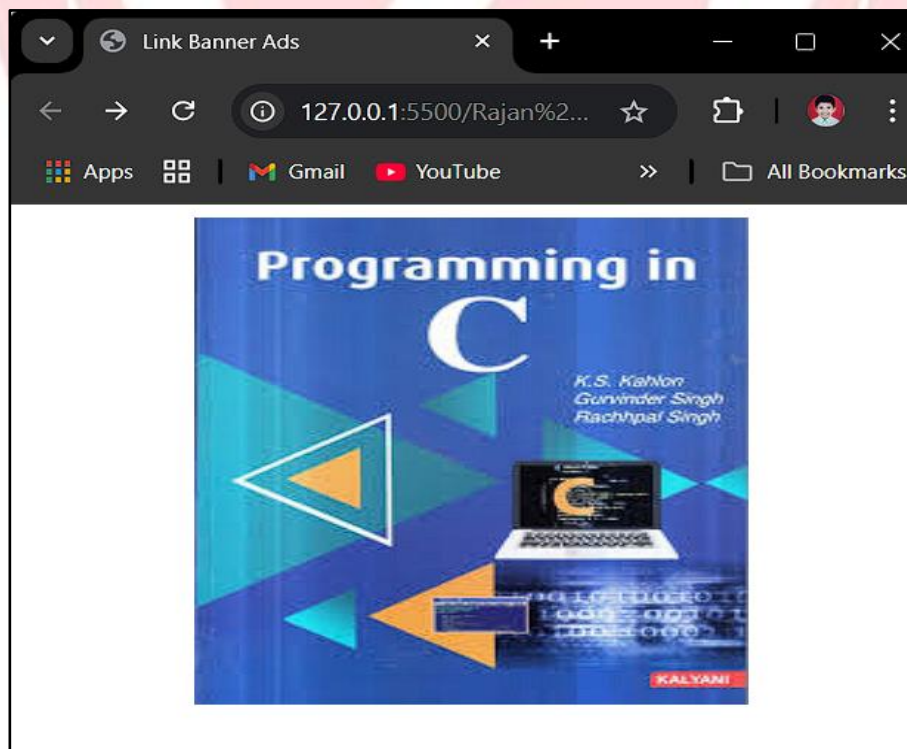
4. Slideshow

```html
<html>
  <head>
    <title>Slide show</title>
    <script>
      var pics = new Array("c.png","python.png","java.png");
      counter = 0;

      function SlideShow(status){
        if(document.images){
          counter = counter + status;
          if(counter < 0){
            counter = pics.length - 1;
          }
          if(counter > (pics.length - 1)){
            counter  = 0;
          }

          document.img1.src = pics[counter];
        }
      }
    </script>
  </head>
  <body>
    <img src="c.png" height="300" width="300" name="img1">
    <br>
    <input type="button" value="Next" onclick="SlideShow(1)">
    <input type="button" value="Back" onclick="SlideShow(-1)">
  </body>
</html>
```

Output :

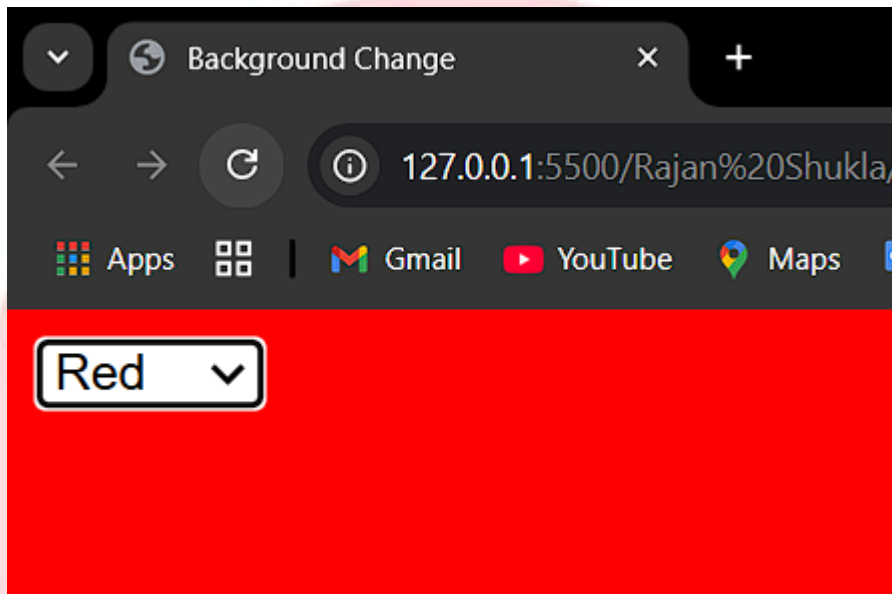## 5. Changing Background Color

```html
<html>
  <head>
    <title>Background Change</title>
    <script>
      function change(){
        var color = document.getElementById("color").value;
        document.body.style.backgroundColor = color;
      }
    </script>
  </head>
  <body>
    <select id="color" onchange="change()">
```

```html
        <option value="red">Red</option>

        <option value="blue">Blue</option>

        <option value="green">Green</option>

    </select>

  </body>

</html>
```

Output :

6. Floating Menu

```html
<html>

  <head>

    <title>Floating menu</title>

    <style>

      .menu{

        background-color: yellowgreen;

        width: 200px;

        padding: 10px;

        color: white;

        position: fixed;

      }
```

```
        .menu a{

            display: block;

        }

    </style>

  </head>

  <body>

    <nav class="menu">

      <h3>Floating Menu</h3>

      <a href="C.txt">C</a>

      <a href="java.txt">java</a>

      <a href="python.txt">Python</a>

    </nav>

  </body>

</html>
```

Output :
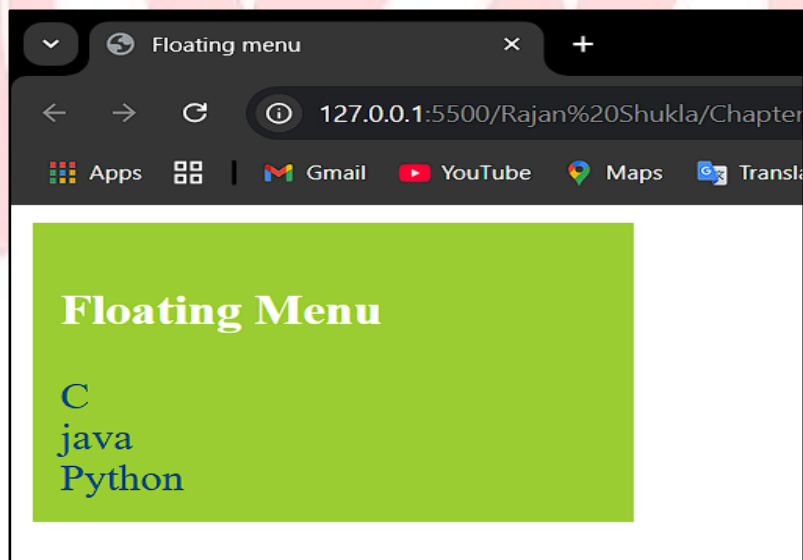
7. Chain select menu

```
<html>

  <head>
```

```html
    <title>Chain selection</title>

    <script>

      var IFemp = new Array("Ram","Sham");

      var COemp = new Array("jon","doe");

      function getEMP(branch){

        var i;

        //Remove all elements

        for(i = document.myForm.emp.options.length - 1; i>0;i--){

          document.myForm.emp.options.remove(i);

        }


        var dept = branch.options[branch.selectedIndex].value;

        if(dept != ""){

          if(dept == "1"){

            for(i=1;i<=IFemp.length;i++){

              document.myForm.emp.options[i] = new Option(IFemp[i-1]);

            }

          }

          if(dept == "2"){

            for(i=1;i<=COemp.length;i++){

              document.myForm.emp.options[i] = new Option(COemp[i-1]);

            }

          }

        }

      }

    </script>

  </head>

<body>

  <form name="myForm">


    <select name="dept" onchange="getEMP(this)">

      <option value="0">Department</option>
```

```
      <option value="1">IF</option>

      <option value="2">CO</option>

    </select>


    <select name="emp">

      <option value="0">Employee</option>

    </select>

  </form>

</body>

</html>
```
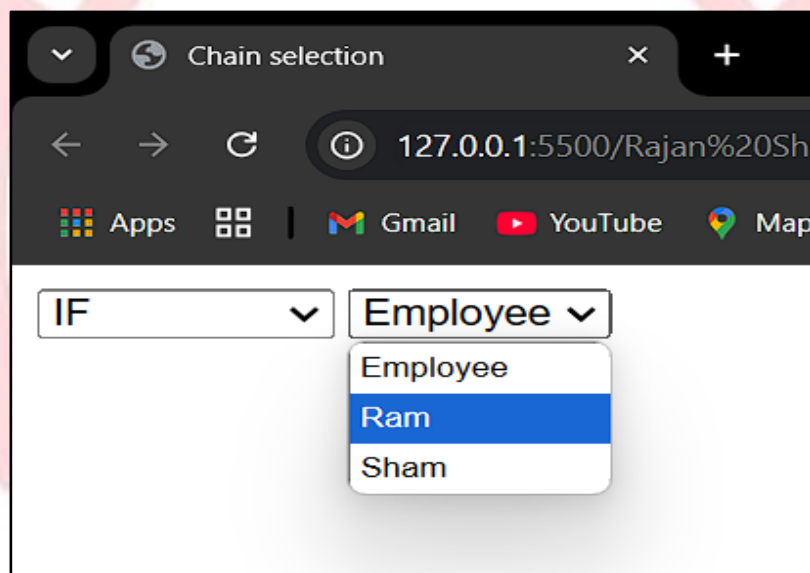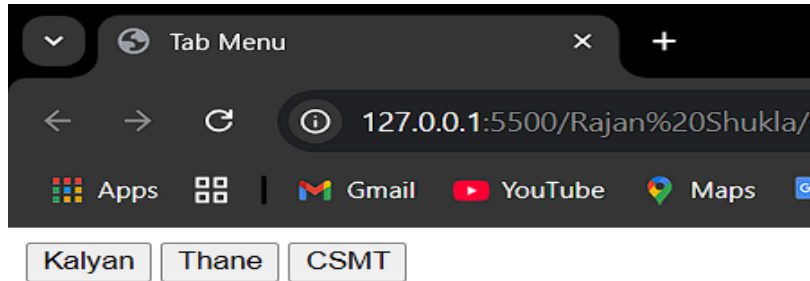
Output :

8. Tab Menu

```
<html>

  <head>

    <title>Tab Menu</title>

    <style>

      .cityClass{

        display: none;
```

```
        }
    </style>
    <script>
        function openCity(city){
            var i;
            var x = document.getElementsByClassName("cityClass");
            for(i=0;i<x.length;i++){
                x[i].style.display = "none";
            }
            var y = document.getElementById(city);
            y.style.display = "block";
        }
    </script>
</head>
<body>
    <div>
        <button onclick="openCity(this.value)" value="kalyan">Kalyan</button>
        <button onclick="openCity(this.value)" value="thane">Thane</button>
        <button onclick="openCity(this.value)" value="csmt">CSMT</button>
    </div>
    <div>
        <div id="kalyan" class="cityClass">
            <p>This is kalyan page</p>
        </div>

        <div id="thane" class="cityClass">
            <p>This is thane page</p>
        </div>

        <div id="csmt" class="cityClass">
            <p>This is CSMT page</p>
        </div>
```

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

Output :

9. Popup Menu

```
<html>
    <head>
        <title>Popup menu</title>
        <style>
            a{
                display: block;
            }
            .branch{
                display: none;
            }
            .program:hover .branch{
                display: block;
            }
        </style>
    </head>
    <body>
```

```
    <div class="program">

      Program

      <div class="branch">

        <a href="#">IF</a>

        <a href="#">CO</a>

        <a href="#">AIML</a>

      </div>

    </div>

  </body>

</html>
```

Output :
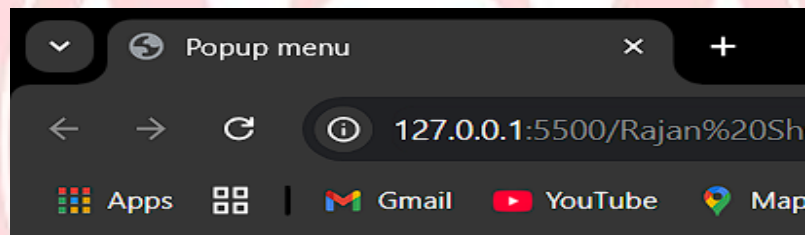
10.   Sliding Menu

```
<html>

  <head>

    <title>Sliding menu</title>

    <style>

      a{
```

```
        display: block;

      }

      .branch{

        position: absolute;

        background-color: yellowgreen;

        padding: 10px;

        width: 200px;

        left: -200px;

        transition: 1s ease-in-out;

      }

      .branch:hover{

        left: 0px;

      }

    </style>

  </head>

  <body>

    <div class="branch">

      <a href="#">IF</a>

      <a href="#">CO</a>

      <a href="#">AIML</a>

    </div>

  </body>

</html>
```

Output :
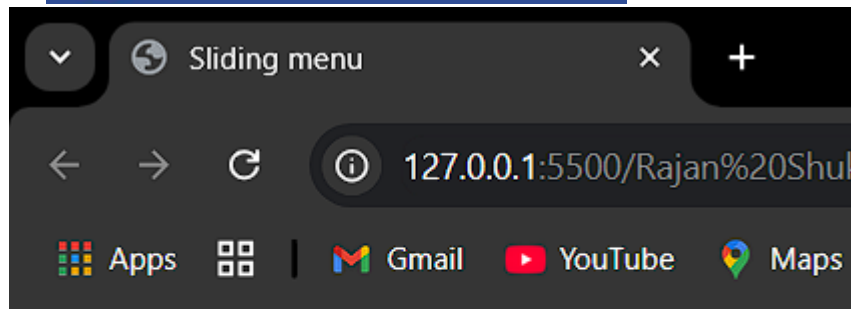
11. Highlighted Menu

```html
<html>
  <head>
    <style>
      .link:hover{
        background-color: grey;
      }
    </style>
  </head>
</head>
```

```
<body>

    <a class="link" href="#">IF</a>

    <a class="link" href="#">CO</a>

    <a class="link" href="#">AIML</a>

</body>

</html>
```
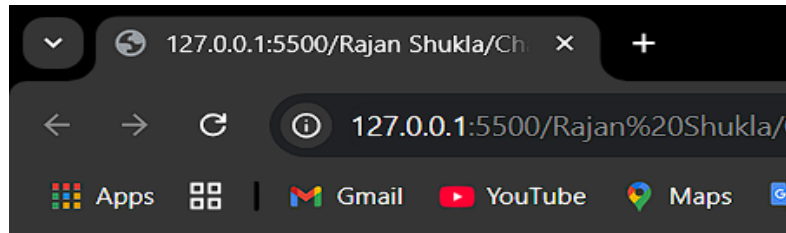
Output :

12.   Folding tree menu

```
<html>

  <head>

    <style>

    ul, #myUL {

    list-style-type: none;

    }

    .caret::before {
```

```css
        content: "\25B6";

        color: black;

        display: inline-block;

        }

        .caret-down::before {

        -ms-transform: rotate(90deg); /* IE 9 */

        -webkit-transform: rotate(90deg); /* Safari */

        transform: rotate(90deg);

        }

        .nested {

        display: none;

        }

        .active {

        display: block;

        }

    </style>
</head>
<body>
    <ul id="myUL">
        <li><span class="caret">India</span>
            <ul class="nested">
                <li>Karnataka</li>
                <li>Tamilnaadu</li>
                <li><span class="caret">Maharashtra</span>
                    <ul class="nested">
                        <li>Mumbai</li>
                        <li>Pune</li>
                        <li><span class="caret">Navi Mumbai</span>
                            <ul class="nested">
                                <li>Nerul</li>
                                <li>Vashi</li>
                                <li>Panvel</li>
```

```html
                </ul>
            </li>
          </ul>
        </li>
      </ul>
    </li>
  </ul>
  <script>
    var toggler = document.getElementsByClassName("caret");
    var i;
    for (i = 0; i < toggler.length; i++) {
      toggler[i].addEventListener("click", function() {
        this.parentElement.querySelector(".nested").classList.toggle("active");
        this.classList.toggle("caret-down");
      });
    }
  </script>
  </body>
</html>
```
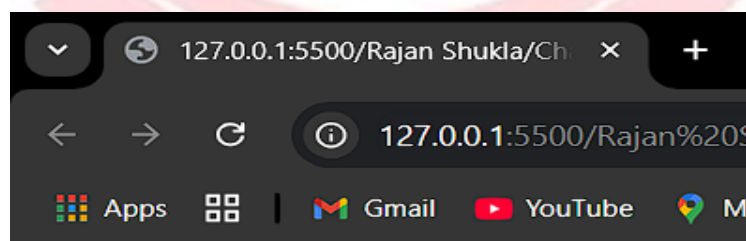
Output :

13.   Context menu

```html
<html>
  <head>
    <style>
      div {
        background: yellow;
        border: 1px solid black;
        padding: 10px;
      }
    </style>
  </head>
  <body>
    <div contextmenu="mymenu">
      <p>Right-click inside this box to see the context menu!
      <menu type="context" id="mymenu">
        <menuitem label="Refresh"></menuitem>
        <menu label="Share on...">
          <menuitem label="Twitter"></menuitem>
          <menuitem label="Facebook"></menuitem>
        </menu>
        <menuitem label="Email This Page"></menuitem>
      </menu>
    </div>
  </body>
</html>
```

14.   Scrollable Menu

```html
<html>
  <head>
    <style>
      div.scrollmenu {
        background-color: #333;
        overflow: auto;
        white-space: nowrap;
      }
      div.scrollmenu a {
        display: inline-block;
        color: white;
        padding: 14px;
      }
    </style>
  </head>
  <body>
    <div class="scrollmenu">
      <a href="#home">Home</a>
      <a href="#news">News</a>
      <a href="#contact">Contact</a>
      <a href="#about">About</a>
      <a href="#support">Support</a>
      <a href="#blog">Blog</a>
      <a href="#tools">Tools</a>
      <a href="#base">Base</a>
      <a href="#custom">Custom</a>
      <a href="#more">More</a>
      <a href="#logo">Logo</a>
      <a href="#friends">Friends</a>
      <a href="#partners">Partners</a>
      <a href="#people">People</a>
      <a href="#work">Work</a>
```
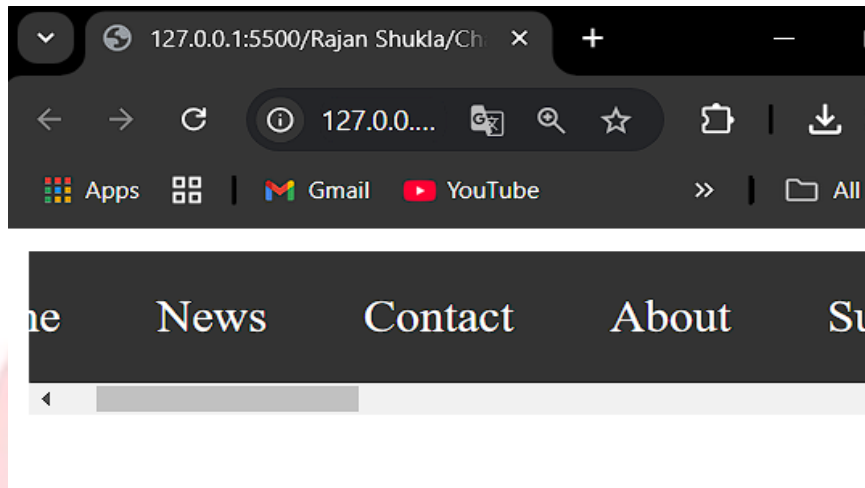
```
        </div>

    </body>

</html>
```

Output :

15.   Side Bar
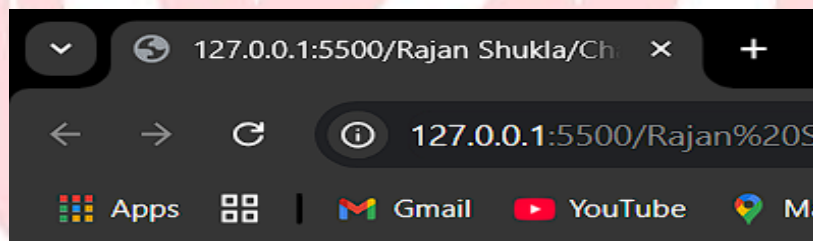
```
<html>

<head>

<style>

.sidebar{

position:fixed;

background-color: pink;

padding:10px;

}
```

```
.sidebar a{

display:block;

}

</style>

</head>

<body>

<div class="sidebar">

<a href="#home"> Home</a>

<a href="#vision">Vision </a>

<a href="#mission"> Mission</a>

<a href="#prog">Programs</a>

</div>

</body>

</html>
```
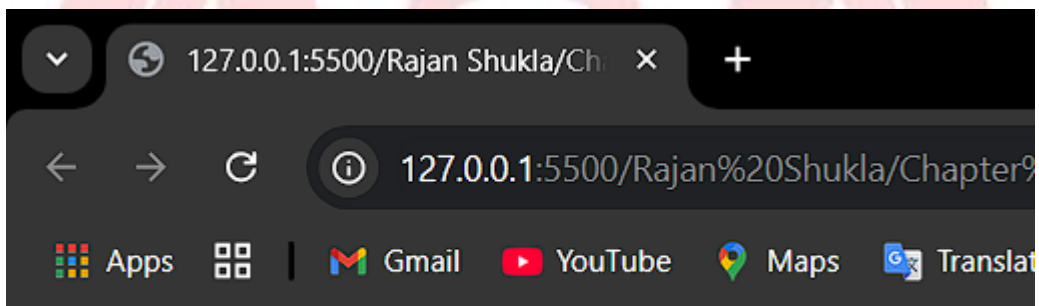
Output :

16.   Disabling right click

```
<html>

   <head>
```

```
    <script>

      window.onload = function(){

        document.addEventListener("contextmenu", function(e){

          e.preventDefault();

      }, false);}

    </script>

  </head>

  <body>

    <h3>Right click on screen,Context Menu is disabled</h3>

  </body>

</html>
```

Output :

Right click on screen,Context Menu is disabled

17.   Concealing Your E-mail Address

```
<html>

  <head>

    <title>Conceal Email Address</title>

    <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>

  </head>

  <body>

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

  </body>

</html>
```