



MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL

NH-12 (Old NH-34), Simhat, Haringhata, Nadia -
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DEPARTMENT OF INFORMATION TECHNOLOGY

Subject: Internet Technology Lab

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YEAR: 2020-2021

1. Write a program in JavaScript to convert from Celsius to Fahrenheit.

Code:

```
<!-- 1. Write a program in JavaScript to convert from Celsius to
Fahrenheit. -->

<!DOCTYPE html>

<html>

<head>

<meta charset="utf-8">

<title>Write a JavaScript program to convert temperatures to and from
celsius, fahrenheit</title>

</head>

<body>

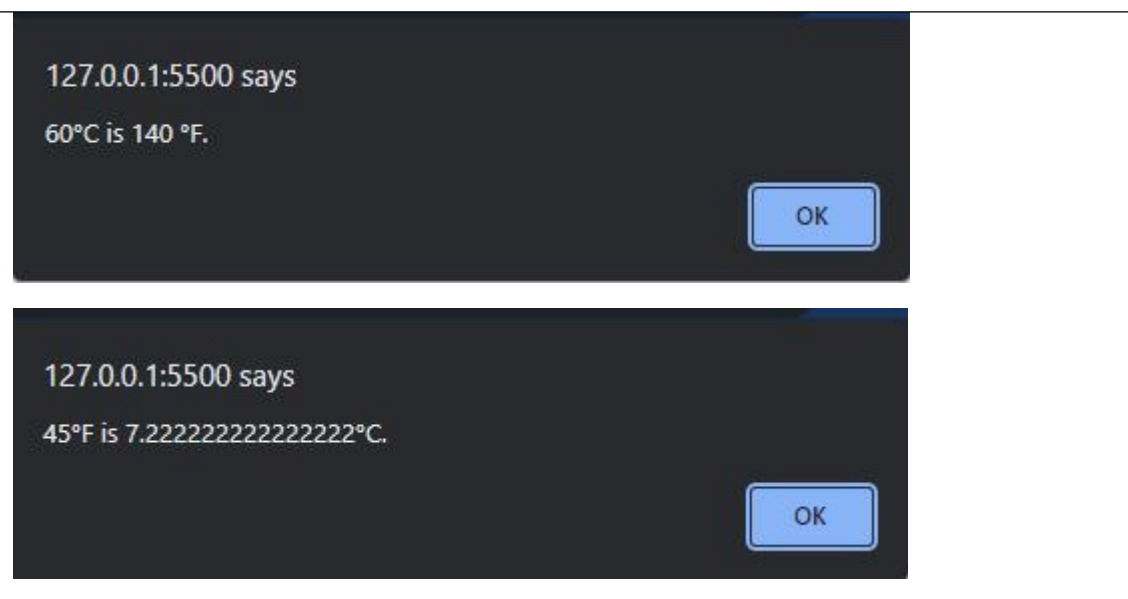
<script>

    function cToF(celsius)
    {
        var cTemp = celsius;
        var cToFahr = cTemp * 9 / 5 + 32;
        var message = cTemp + '\xB0C is ' + cToFahr + ' \xB0F.';
        alert(message);
    }

    function fToC(fahrenheit)
    {
        var fTemp = fahrenheit;
```

```
var fToCel = (fTemp - 32) * 5 / 9;  
var message = fTemp + '\xB0F is ' + fToCel + '\xB0C.';  
alert(message);  
}  
cToF(60);  
fToC(45);  
</script>  
</body>  
  
</html>
```

Output:



2. Write a program in JavaScript to check whether a year is leap year or not.

Code:

```
<!-- 2. Write a program in JavaScript to check whether a year is leap year
```

or not. -->

```
<!DOCTYPE html>
```

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

```
<head>
```

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

```
<meta http-equiv="X-UA-Compatible" content="IE=edge" />
```

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

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

```
</head>
```

```
<body>
```

```
<script>
```

```
// program to check leap year
```

```
function checkLeapYear(year) {
```

```
    //three conditions to find out the leap year
```

```
    if ((0 == year % 4 && 0 != year % 100) || 0 == year % 400) {
```

```
        alert(year + " is a leap year");
```

```
    } else {
```

```
        alert(year + " is not a leap year");
```

```
    }
```

```
}
```

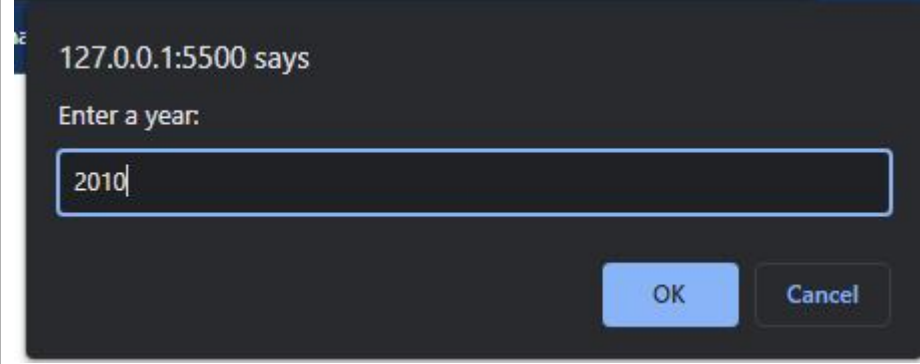
```
// take input
```

```
const year = prompt("Enter a year:");
```

```
checkLeapYear(year);
```

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

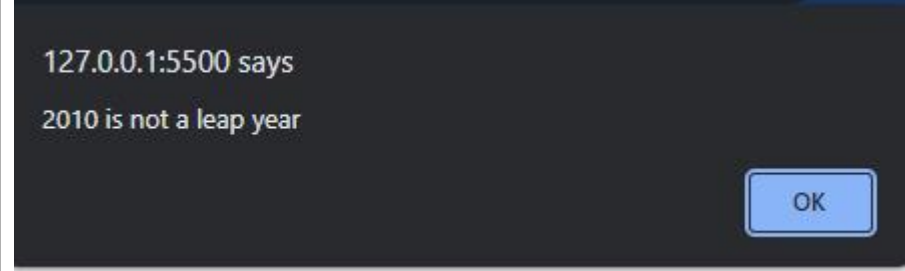
Input:



127.0.0.1:5500 says
Enter a year:
2010

OK Cancel

Output:



127.0.0.1:5500 says
2010 is not a leap year

OK

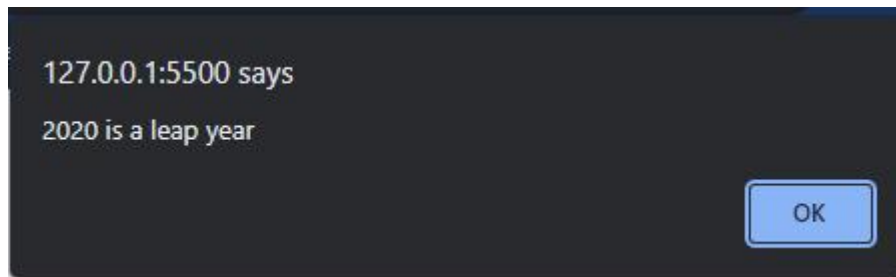
Input:



127.0.0.1:5500 says
Enter a year:
2020

OK Cancel

Output:



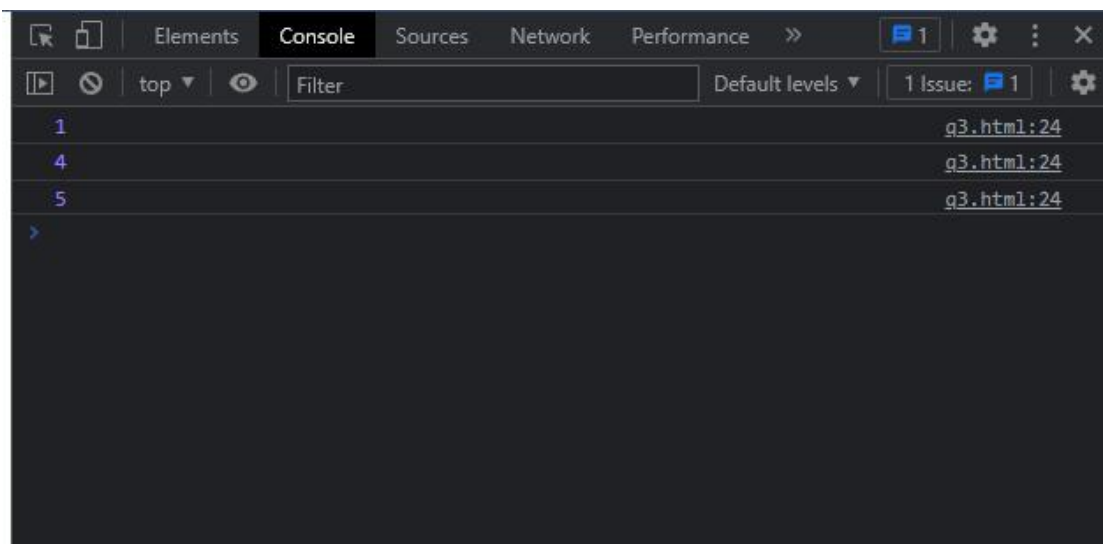
3. Write a program in JavaScript to show the use of break and continue.

Code:

```
<!--3. Write a program in JavaScript to show the use of break and
continue. -->
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-
scale=1.0">
  <title>Document</title>
</head>
<body>
  <p id="ele"></p>
  <script>
    // program to print the value of i
for (let i = 1; i <= 5; i++) {
  // break condition
```

```
if (i == 3) {  
    break;  
}else if(i==2){  
    i++;  
    continue;  
}  
  
console.log(i);  
}  
  
</script>  
</body>  
</html>
```

Output:



4. Write a program in JavaScript to print the following pattern:

```
*  
  
* *  
  
* * *  
  
* * * *
```

Code:

```
<!-- 4. Write a program in JavaScript to print the following pattern:
```

```
*  
  
* *  
  
* * *  
  
* * * *
```

```
-->
```

```
<!DOCTYPE html>
```

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

```
<head>
```

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

```
<meta http-equiv="X-UA-Compatible" content="IE=edge" />
```

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

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

```
</head>
```

```
<body>
```

```
<p id="pattern"></p>
```

```
<script>
```

```
let n = 5;
```

```
let string = "";
```



```
for (let i = 1; i <= n; i++) {  
  for (let j = 0; j < i; j++) {  
    string += "*";  
  
  }  
  
  string += "<br>";  
  
}  
console.log(string);  
document.getElementById("pattern").innerHTML = string;  
</script>  
</body>  
</html>
```

Output:

```
*  
**  
***  
****  
*****
```

5. Write a program in JavaScript to concatenate two arrays.

Code:

```
<!--5. Write a program in JavaScript to concatenate two arrays. -->
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-
scale=1.0">
  <title>Document</title>
</head>
<body>
  <h3 class="oldcar">
    These are old car List
  </h3>
  <p id="oldcarcontent"></p>

  <h3 class="Newcar">
    These are new car List
  </h3>
  <p id="newcarcontent"></p>

  <h3 class="Newcar">
    These are all car List
  </h3>
```

```
<p id="allcarcontent"></p>
<script>
  let newcar=["Tata Nexon ", " Mahindra Thar . "];
  let oldcar=[" Honda City ", " MS Alto 800"];

  let totalcar=newcar+oldcar;

  document.getElementById("oldcarcontent").innerHTML=oldcar;
  document.getElementById("newcarcontent").innerHTML=newcar;
  document.getElementById("allcarcontent").innerHTML=totalcar;
  console.log(totalcar);
</script>
</body>
</html>
```

Output:

These are old car List

Honda City , MS Alto 800

These are new car List

Tata Nexon , Mahindra Thar .

These are all car List

Tata Nexon , Mahindra Thar . Honda City , MS Alto 800

6. Write a program in JavaScript to find the reverse of a string.

Code:

```
<!-- 6. Write a program in JavaScript to find the reverse of a string. -->
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-
scale=1.0">
  <title>Document</title>
</head>
<body>
```

```
<h1>String</h1>
<h3 id="string">MAKAUT</h3>
<h1>Reverse String</h1>
<h3 id="revstring"></h3>
<script>
  let s = document.getElementById("string").innerHTML;
  let ans="";
  for(let i=s.length-1;i>=0;i--){
    console.log(s[i]);
    ans+=s[i];
    document.getElementById("revstring").innerHTML=ans;
  }
</script>
</body>
</html>
```

Output:

String

MAKAUT

Reverse String

TUAKAM

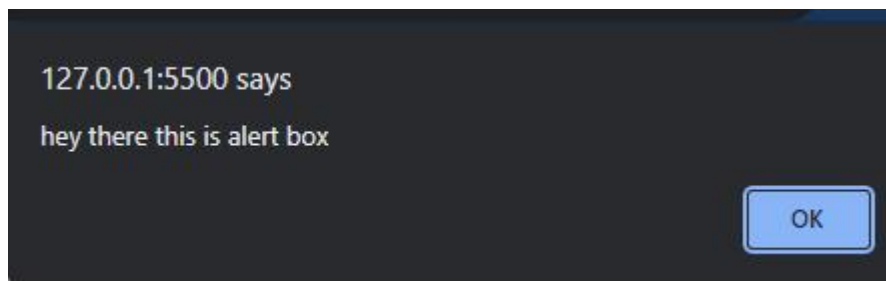
7. Write a program in JavaScript to display alert box.

Code:

```
<!-- 7. Write a program in JavaScript to display alert box. -->
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-
scale=1.0">
  <title>Document</title>
</head>
<body>
```

```
<script>
    alert("hey there this is alert box");
</script>
</body>
</html>
```

Output:



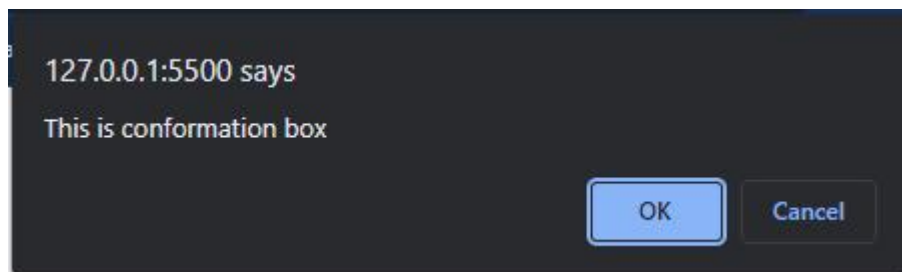
8. Write a program in JavaScript to display confirmation box.

Code:

```
<!-- 8. Write a program in JavaScript to display confirmation box. -->
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-
scale=1.0">
    <title>Document</title>
</head>
<body>
```

```
<script>
    confirm("This is conformation box");
</script>
</body>
</html>
```

Output:



9. Write a program in JavaScript to display prompt box.

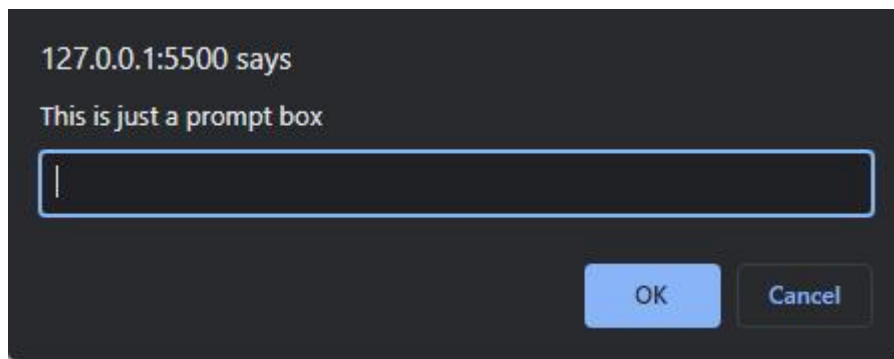
Code:

```
<!-- 9. Write a program in JavaScript to display prompt box. -->
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-
scale=1.0">
    <title>Document</title>
</head>
<body>
```



```
<script>
    prompt("This is just a prompt box")
</script>
</body>
</html>
```

Output:



10. Write a program in JavaScript to show the use of onkeypress event.

Code:

```
<!-- 10. Write a program in JavaScript to show the use of onkeypress
event. -->
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-
scale=1.0">
    <title>Document</title>
```

```
</head>
<body>

  <h3>On clicking in the text box a function will trigger</h3>
  <input type="text" onkeypress="trigger()">
  <h3 id="trig"></h3>
  <script>
    function trigger(){

      document.getElementById("trig").innerHTML="This is effect after
clicking in the text box";
    }

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

Output:

On clicking in the text box a function will trigger

On clicking in the text box a function will trigger

This is effect after clicking in the text box

11. Write a program in JavaScript to perform the textbox required validation.

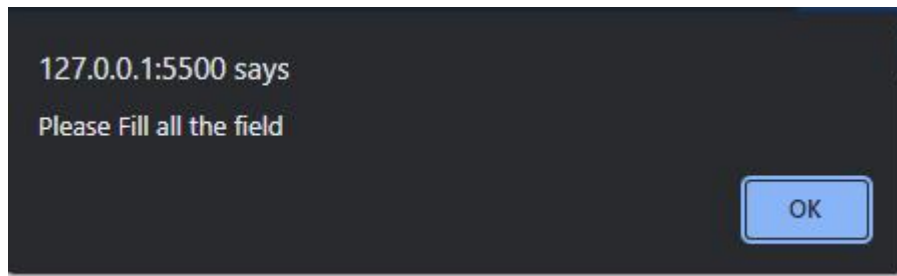
Code:

```
<!-- 11. Write a program in JavaScript to perform the textbox required
validation. -->
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-
scale=1.0">
  <title>Document</title>
```

```
</head>
<body>
  <form name="myForm" action="" onsubmit="return
validateTheForm()" method="post">
    Name: <input type="text" name="Name">
    <input type="submit" value="Submit">
  </form>
  <script>
    function validateTheForm(){
      let x=document.forms["myForm"]["Name"].value;
      if(x==""){
        alert("Please Fill all the field");
        return false;
      }
    }
  </script>
</body>
</html>
```

Output:

Name:



12. Write a program in JavaScript to validate an email.

Code:

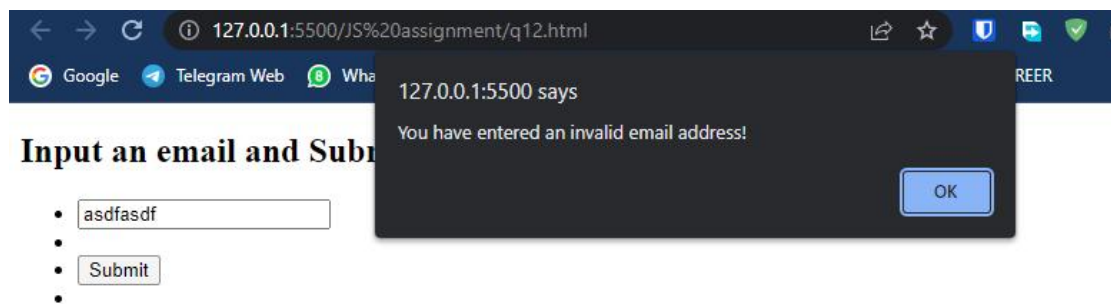
```
<!-- 12. Write a program in JavaScript to validate an email. -->
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="utf-8">
<title>JavaScript form validation - checking email</title>

</head>
<body onload='document.form1.text1.focus()>
<div class="mail">
<h2>Input an email and Submit</h2>
<form name="form1" action="#">
<ul>
<li><input type='text' name='text1'/></li>
<li>&nbsp;</li>
<li class="submit"><input type="submit" name="submit"
value="Submit" onclick="ValidateEmail(document.form1.text1)"/></li>
<li>&nbsp;</li>
</ul>
```

```
</form>
</div>
<script>
    function ValidateEmail(inputText)
    {
var mailformat = /^\\w+([\\.-]?\\w+)*@\\w+([\\.-]?\\w+)*\\.\\w{2,3}+$/;
if(inputText.value.match(mailformat))
{
alert("Valid email address!");
document.form1.text1.focus();
return true;
}
else
{
alert("You have entered an invalid email address!");
document.form1.text1.focus();
return false;
}
}

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

Output:



13. Write a program in JavaScript to validate letter and number in a text field.

Code:

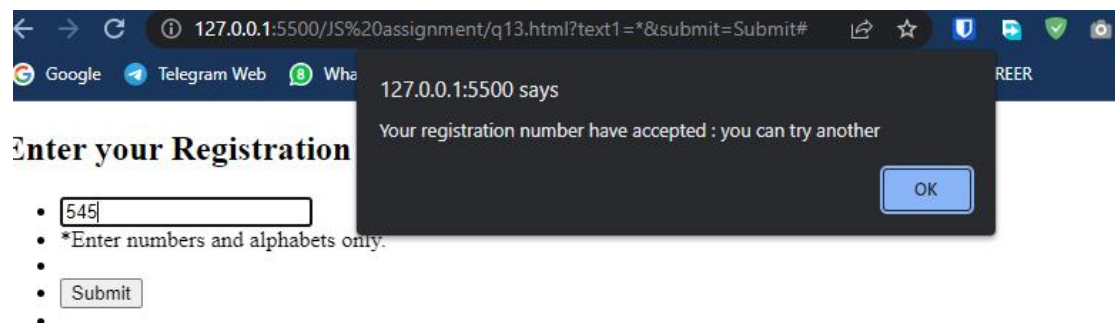
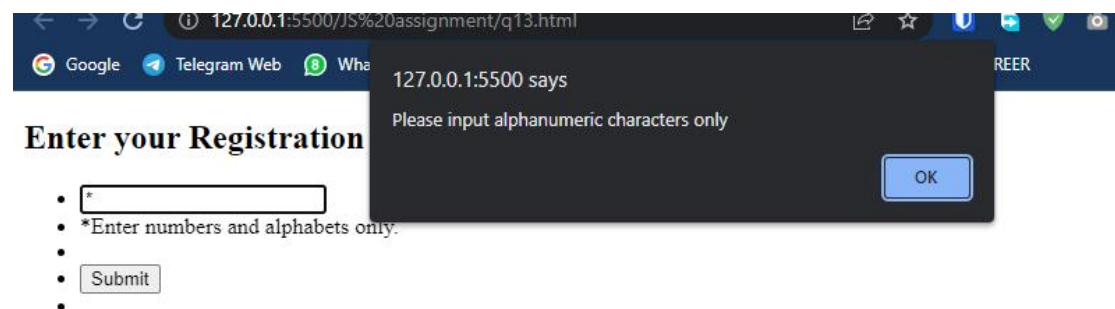
```
<!-- 13. Write a program in JavaScript to validate letter and number in a
text field. -->
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8" />
    <title>JavaScript form validation - checking all letters and
numbers</title>
  </head>
  <body onload="document.form1.text1.focus()">
    <div class="mail">
      <h2>Enter your Registration Number and Submit</h2>
      <form name="form1" action="#">
        <ul>
          <li><input type="text" name="text1" /></li>
```

```
<li class="rq">*Enter numbers and alphabets only.</li>
<li>&nbsp;</li>
<li>
  <input
    type="submit"
    name="submit"
    value="Submit"
    onclick="alphanumeric(document.form1.text1)"
  />
</li>
<li>&nbsp;</li>
</ul>
</form>
</div>
<script>
function alphanumeric(inputtxt) {
  var letters = /^[0-9a-zA-Z]+$/;
  if (inputtxt.value.match(letters)) {
    alert("Your registration number have accepted : you can try
another");
    document.form1.text1.focus();
    return true;
  } else {
    alert("Please input alphanumeric characters only");
    return false;
  }
}
```



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

Output:



14. Write a program in JavaScript to validate an ip address.

Code:

```
<!-- 14. Write a program in JavaScript to validate an ip address. -->  
<!-- Write a program in JavaScript to validate an ip address. -->  
<!DOCTYPE html>
```

```
<html lang="en">

<head>

  <meta charset="utf-8">

  <title>JavaScript form validation - checking ip address</title>

</head>

<body>

  <h2>Input Ip address</h2>

  <form name="form1" action="#">

    <ul>

      <input type='text' name='text1' />

      <input type="submit" name="submit" value="Submit"
onclick="ValidateIPAddress(document.form1.text1)" />

    </ul>

  </form>

  <script>

    function ValidateIPAddress(inputText) {

      var IP = /^(25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.(25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.(25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.(25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)$/;

      if (inputText.value.match(IP)) {

        alert("Valid IP");

        document.form1.text1.focus();

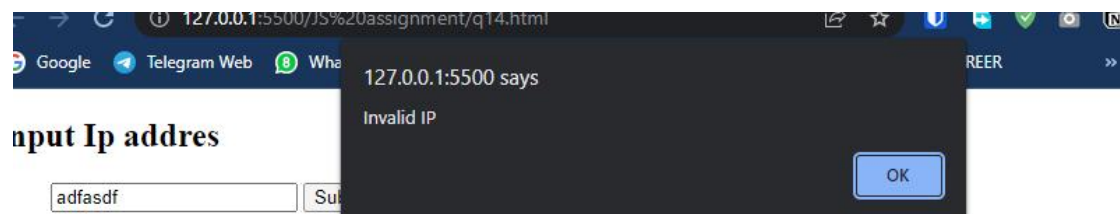
        return true;

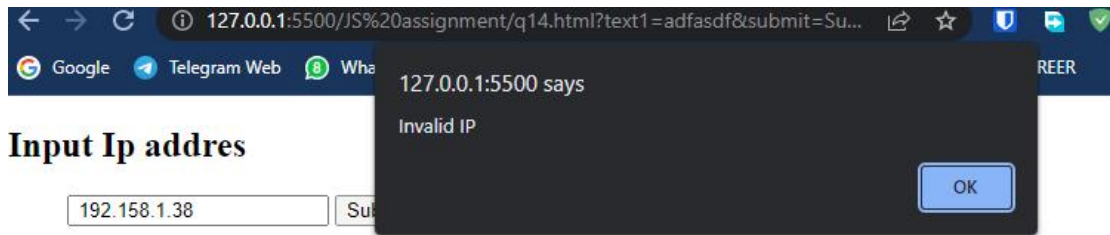
      }

      else {
```

```
        alert("Invalid IP");  
        document.form1.text1.focus();  
        return false;  
    }  
}  
  
</script>  
</body>  
  
</html>
```

Output:





15. Write a program in JavaScript to disable the back button.

Code:

```
<!-- 15. Write a program in JavaScript to disable the back button. -->
```

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
  <title> Blocking Back Button using javascript</title>
```

```
</head>
```

```
<body>
```

```
  <h1>Block back Button </h2>
```

```
  <p>
```

```
    Click here to Goto
```

```
    <a href="q12.html">
```

```
      Link to second page
```

```
</a>
</p>

<script>
    window.history.forward();
    function noBack() {
        window.history.forward();
    }
</script>
</body>

</html>
```

Output:

Block back Button

Click here to Goto [Link to second page](#)

16. Write a program in JavaScript to disable mouse right click.

Code:

```
<!-- 16. Write a program in JavaScript to disable mouse right click. -->
```

```
<!DOCTYPE HTML>
<html>
  <head>
    <title>
      Disable right click on my web page
    </title>
  </head>

  <body style = "text-align:center;">

    <h1>
      Click on the button to disable right click
    </h1>

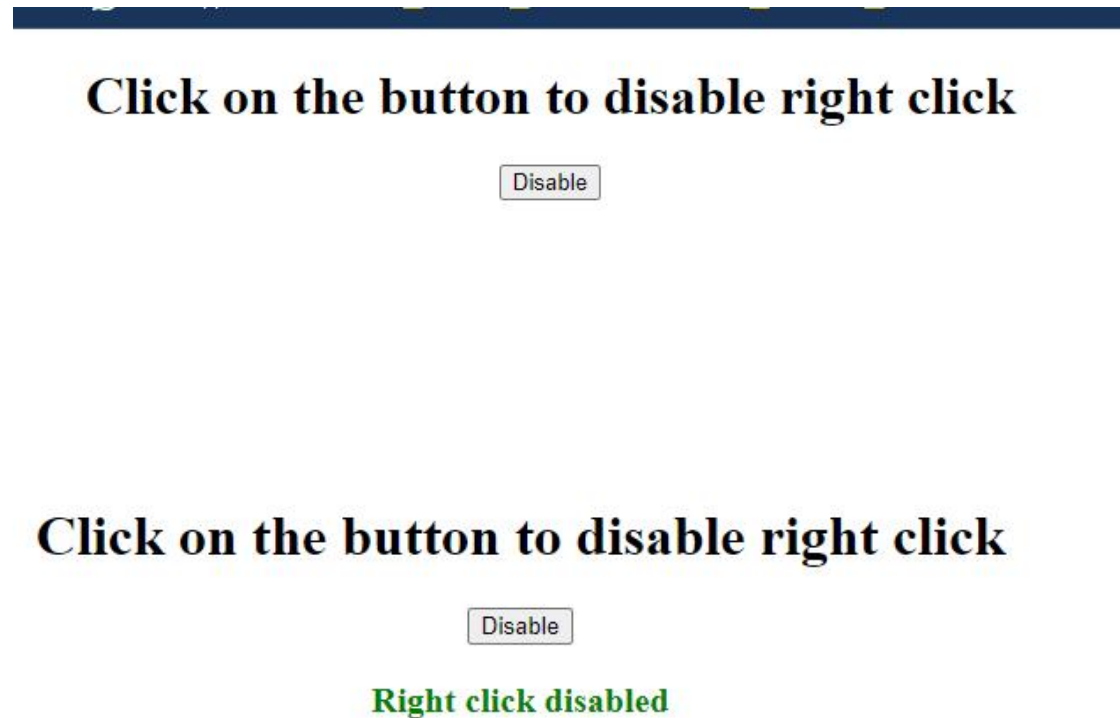
    <button onclick = "run_func()">
      Disable
    </button>

    <p id = "down" style =
      "color:green; font-size: 20px; font-weight: bold;">
    </p>

    <script>
      var el_up = document.getElementById("up");
      var el_down = document.getElementById("down");
```

```
el_up.innerHTML = "Click on the button to disable  
right click";  
  
function run_func() {  
    document.addEventListener('contextmenu',  
        event => event.preventDefault());  
    el_down.innerHTML = "Right click disabled";  
}  
</script>  
</body>  
</html>
```

Output:



17. Write a program in JavaScript for date countdown timer.

Code:

```
<!-- 17. Write a program in JavaScript for date countdown timer. -->

<!DOCTYPE HTML>
<html>

<head>
  <title>Timer</title>
</head>
```



```
<body>
  <h2>
    Timer
  </h2>
  <p id="demo"></p>
  <script>
    var deadline = new Date("Nov 19, 2030 15:37:25").getTime();
    var x = setInterval(function () {
      var now = new Date().getTime();
      var t = deadline - now;
      var days = Math.floor(t / (1000 * 60 * 60 * 24));
      var hours = Math.floor((t % (1000 * 60 * 60 * 24)) / (1000 * 60 *
60));
      var minutes = Math.floor((t % (1000 * 60 * 60)) / (1000 * 60));
      var seconds = Math.floor((t % (1000 * 60)) / 1000);
      document.getElementById("demo").innerHTML = days + "d "
        + hours + "h " + minutes + "m " + seconds + "s ";
    }, 1000);
  </script>

</body>

</html>
```

Output:

Timer

2940d 21h 22m 56s

18. Write a program in JavaScript for checkbox validation.

Code:

```
<!-- 18. Write a program in JavaScript for checkbox validation. -->
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Checkbox validation</title>
```

```
</head>
```

```
<body>
```

```
  <form action="#" onsubmit="return checkCheckBoxes(this);">
```

```
    <p><input type="CHECKBOX" name="MyCheckbox"  
value="This..."></p>
```

```
    <p><input type="SUBMIT"></p>
```

```
    <p id="alert"></p>
```

```
</form>
```

```
<script>
```

```
  function checkCheckBoxes(theForm) {
```

```
    if (
```

```
      theForm.MyCheckbox.checked == false) {
```

```
        document.getElementById("alert").innerHTML="Not  
Cheaked";
```

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

```
        return false;
```

```
      } else {
```

```
        document.getElementById("alert").innerHTML="Cheaked";
```

```
        document.getElementById("alert").style.color="green";
```

```
      }
```

```
    }
```

```
</script>
```

```
</body>
```

```
</html>
```

Output:

☐

Not Cheaked

☒

Cheaked

19. Write a program in JavaScript to check whether a radio button is selected or not.

Code:

```
<!-- 19. Write a program in JavaScript to check whether a radio button is selected
```

or not. -->

```
<html>
```

```
<body>
```

```
  <input type="radio" id="Radio" value="Radio">Radio
```

```
  <button type="button" onclick=" checkButton()"> Submit </button>
```

```
  <h3 id="aleart" style="color:green"> </h3>
```

```
</body>
```

```
<script>
```

```
  function checkButton() {
```

```
    if (document.getElementById('Radio').checked) {
```

```
      document.getElementById("aleart").innerHTML
```

```
        = document.getElementById("Radio").value
```

```
        + " is checked";
```

```
    }
```

```
    else {
```

```
      document.getElementById("aleart").innerHTML
```

```
        = "Radio is not checked";
```

```
      document.getElementById("aleart").style.color
```

```
        = "red";
```

```
    }
```

```
  }
```

```
</script>
```

```
</html>
```

Output:

☐ Radio

Radio is not checked

☒ Radio

Radio is checked

20. Write a program in JavaScript to print a page.

Code:

```
<!-- 20. Write a program in JavaScript to print a page. -->

<!DOCTYPE html>

<html>

<head>
  <title>Print a Page</title>
</head>

<body>
  <p>This is the print content.</p>
  <button onclick="display()">Click to Print</button>
  <script>
    function display() {
      window.print();
    }
  </script>
</body>

</html>
```

Output:

This is the print content.

Click to Print

10/31/22, 6:20 PM

Print a Page

This is the print content.

Click to Print

127.0.0.1:5500/js/assignment/v20.html

1/1

Print1 page

DestinationSave as PDF

PagesAll

LayoutPortrait

More settings

SaveCancel