INTERNET TECHNOLOGY

Practical Note

NAME: MASUK MAZARBHUIYA

COLLEGE ROLL NUMBER: 7019

University Registration Number: 20200006752

Paper Code: CACDSE504L

Contents

X

Tearcher's Signature

Date of Experiment: 07/11/2022

Q:1: Write a program in HTML of the following-

a. To insert two image files.
b. To use hyperlink to connect two pages.
c. To insert three headings of different sizes.

Objective of the program:

Using html we have to demonstrate how to insert image, how to create hyper link, how to insert heading of different sizes in a web page.

Code:

// To insert two image files

```
<!DOCTYPE html>
<html>
<head>

    <title>Insert Image</title>
</head>
<body>
    <h1>Back ground 1</h1>
    <p><img src="./img/wallhaven-1k6v1v.png" height="480p" width="480p"></p>
    <p><img src="./img/wallhaven-3lok9v.png" height="480p" width="480p"></p>
</body>
</html>
```

// Hyper link code

```
<!DOCTYPE html>

<head>

    <title>Hyper Link</title>
</head>
<body>
    <h1>We are creating hyper link....</h1>
    <p><a href="./InsertImg.html">Go back to Insert Image</a></p>
</body>
</html>
```

// Three heading of different sizes

```
<!DOCTYPE html>
<html lang="en">
<head>

    <title>Heading</title>
</head>
```

```
<body>
    <h1>Different types of Heading...</h1>
    <h2>Different types of Heading...</h2>
    <h3>Different types of Heading...</h3>
</body>
</html>
```

Output:

(a)

Back ground 1

(b)

We are creating hyper link....

Go back to Insert Image

(c)

Different types of Heading...

Different types of Heading...

Different types of Heading...

Date of Experiment: 07/11/2022

Q:2: Write a program in HTML to display the following table-

Year	India	UK
2016	70	80
2017	65	62

Objective of the experiment:

The main objective is to demonstrate how to insert a table in a web page using html.

Code:

```
<!DOCTYPE html>
<html lang="en">
<head>

    <title>Table</title>
</head>
<body>
    <table border="1px" >
        <tr>
            <th>Year</th>
            <th>India</th>
            <th>UK</th>
        </tr>
        <tr>
            <td>2016</td>
            <td>70</td>
            <td>80</td>
        </tr>
        <tr>
            <td>2017</td>
            <td>65</td>
            <td>62</td>
        </tr>
    </table>
</body>
</html>
```

Output:

Year	India	UK
2016	70	80
2017	65	62

Date of Experiment: 07/11/2022

Q:3: Write a program in Java Script to multiply two numbers using two text boxes, one command button and on-click event handler.

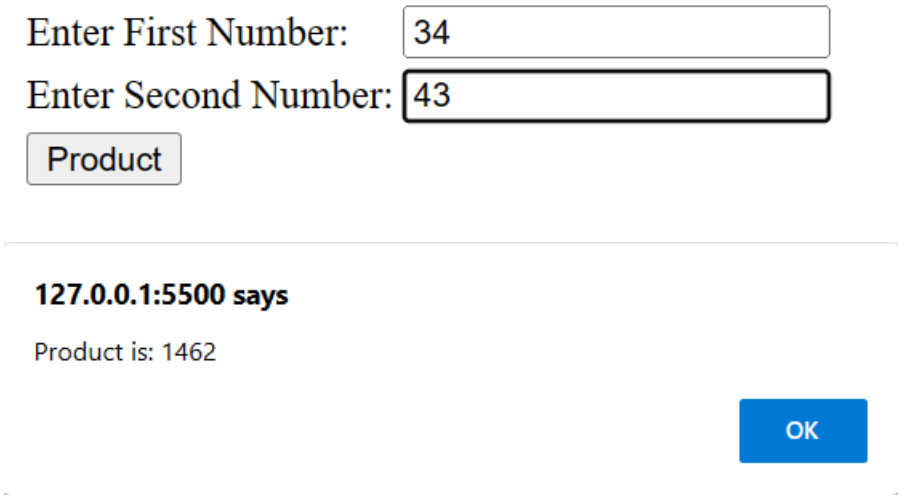
Objective of the program:

The main objective of the is to multiply two numbers using two text boxes, one command button and on-click event handler.

Code:

```
<html>
    <head>
        <title>Multiply</title>
    </head>
<script>

function product(){
var num1=document.form.text1.value;
var num2=document.form.text2.value;
var sum=Number(num1)*Number(num2);
alert("Product is: "+sum);
}

</script>
<body>
    <form name="form">
        <table>
        <tr>
        <td>Enter First Number:</td>
        <td><input type="text" name="text1"></td>
        </tr>
        <tr>
        <td>Enter Second Number:</td>
        <td><input type="text" name="text2"></td>
        </tr>
        <tr>
        <td><input type="button" value="Product" onclick="product();"></td>
        </tr>
        </table>
</body>
</html>
```

Output:


Enter First Number:
34
Enter Second Number:
43
Product
127.0.0.1:5500 says
Product is: 1462
OK

Date of Experiment: 08/11/2022

Q:4: Write a HTML program to input name, roll no, semester, department & year of a student and display the output in a tabular form

Objective of the program:

Using HTML we have to input name, roll no, semester, department & year of a student and display the output in a tabular form.

Code:

```
<!DOCTYPE html>
<html lang="en">
<head>

    <title>Tabular form</title>
</head>
<body>
    <table>
        <tr>
            <th>Name</th>
            <th>Roll no</th>
            <th>Semester</th>
            <th>Department</th>
            <th>Year</th>
        </tr>
        <tr>
            <td><input type="text"></td>
            <td><input type="text"></td>
            <td><input type="text"></td>
            <td><input type="text"></td>
            <td><input type="text"></td>
        </tr>
    </table>
</body>
</html>
```

Output:

Name	Roll no	Semester	Department	Year
Masuk	7019	5th	Compute Application	2023

Date Of experiment:10/11/2022

Q:5: Write a program to design a database of a student with attributes- name, roll no, contact no, DOB, department, year in XML.

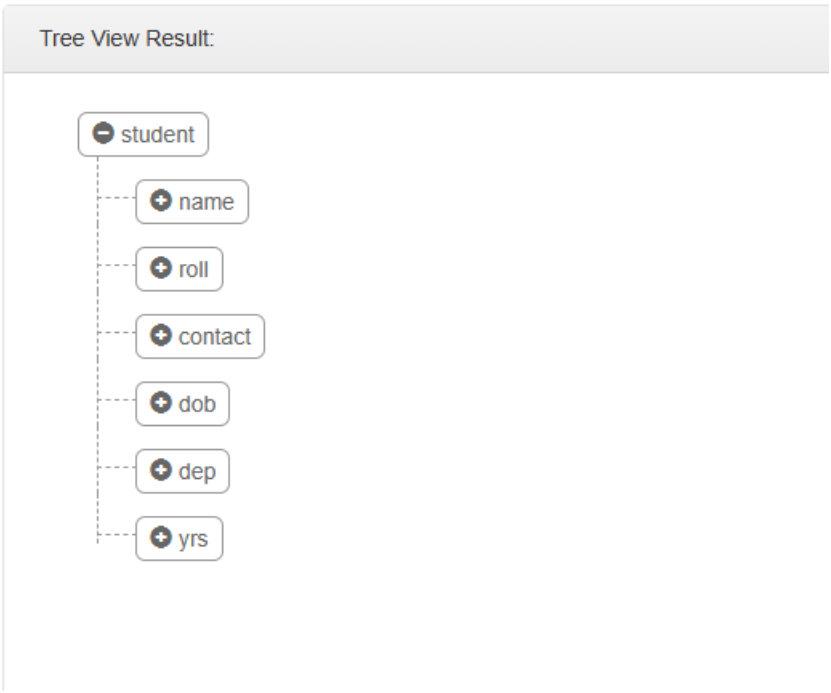
Objective of the experiment:

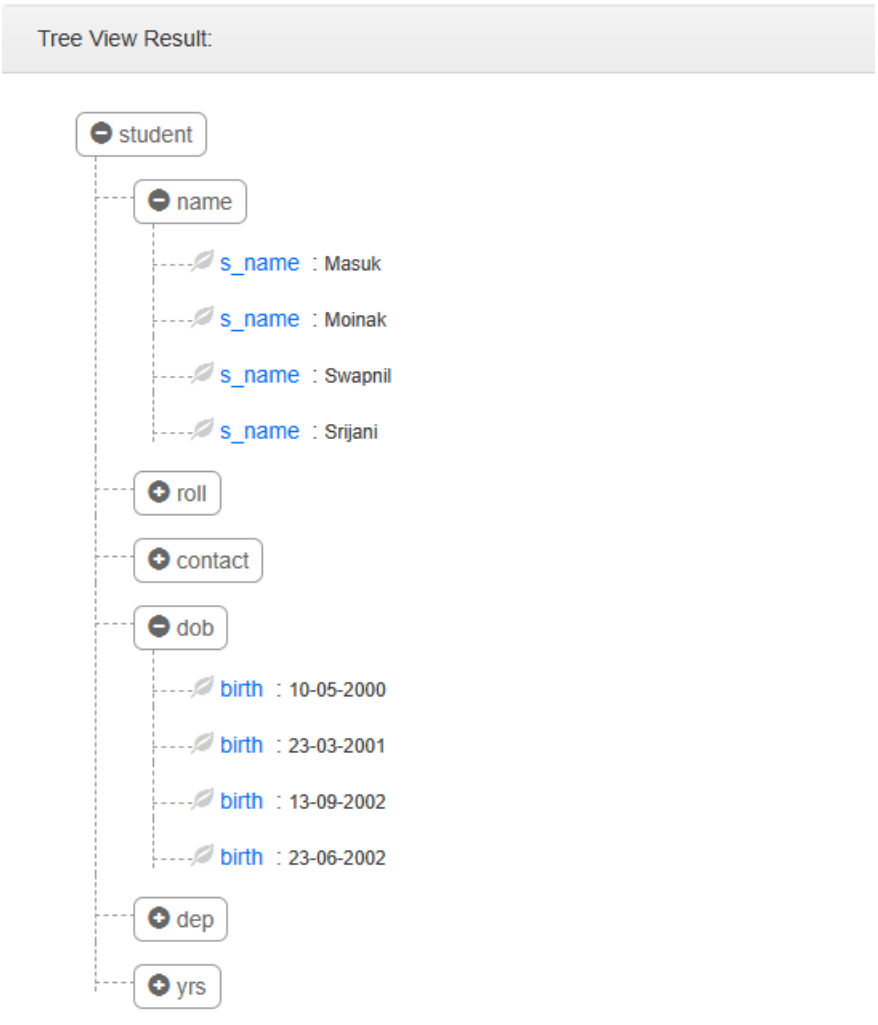
Using XML we have to design a database of a student with attributes- name, roll no, contact no, DOB, department, year.

Code:

```
<student>
    <name>
        <s_name>Masuk</s_name>
        <s_name>Moinak</s_name>
        <s_name>Swapnil</s_name>
        <s_name>Srijani</s_name>
    </name>
    <roll>
        <s_roll>1001</s_roll>
        <s_roll>1002</s_roll>
        <s_roll>1003</s_roll>
        <s_roll>1004</s_roll>
    </roll>
    <contact>
        <c_no>99000000</c_no>
        <c_no>95555000</c_no>
        <c_no>96500000</c_no>
        <c_no>94500000</c_no>
    </contact>
    <dob>
        <birth>10-05-2000</birth>
        <birth>23-03-2001</birth>
        <birth>13-09-2002</birth>
        <birth>23-06-2002</birth>
    </dob>
    <dep>
        <dep_n>Computer Application</dep_n>
        <dep_n>Computer Application</dep_n>
        <dep_n>Computer Application</dep_n>
        <dep_n>Computer Application</dep_n>
    </dep>
    <yrs>
        <y_n>2023</y_n>
        <y_n>2023</y_n>
        <y_n>2023</y_n>
        <y_n>2023</y_n>
    </yrs>
</student>
```

Output:


Tree View Result:
student
name
roll
contact
dob
dep
yrs


Tree View Result:
student
name
s_name : Masuk
s_name : Moinak
s_name : Swapnil
s_name : Srijani
roll
contact
dob
birth : 10-05-2000
birth : 23-03-2001
birth : 13-09-2002
birth : 23-06-2002
dep
yrs

Date of Experiment: 10/11/2022

Q:6: Write a Java Script program to display a character string in the reverse order.

Objective of the program:

The main objective of the program is to display a character string in the reverse order using JavaScript.

Code:

```
<!DOCTYPE html>
<html>
 <head>
  <title>
   Java Script program to display a character string in the reverse order.
  </title>
 </head>

 <body>
 <script>
  function textrev() {
   let concatArr = "";
   input = document.getElementById("textinput").value;
   for(var i = input.length-1; i >= 0; i--) {
    concatArr = concatArr + input[i];
   }
   document.getElementById("output").innerHTML = concatArr;
  }
 </script>
 Enter the text: <input type="text" id="textinput" />
  <input type="button" id="button" onclick="textrev()" value="Reverse" />
  <h1 id="output"></h1>
 </body>
```

```
</html>
```

Output:

Date of Experiment: 14/11/2022

Q:7: Write a JAVA Script code to count the number of digits in a given number.

Objective of the experiment:

The main objective of the program is how we can count the number of digits in a given number using JavaScript.

Code:

```
<html>
<head>
<title>JavaScript function to count the digits of an integer.</title>
</head>
<body>
<script>
function digits_count(n) {
  var count = 0;
  if (n >= 1)
  ++count;

  while (n / 10 >= 1) {
    n /= 10;
    ++count;
  }

  return count;
}

document.write("The total no.of elements are "+digits_count(456137));

</script>

</body>
</html>
```

Output:

The total no.of elements are 6

Date of Experiment: 14/11/2022

Q:8: Write a HTML to design a form that has the following attribute Name, Address, E-mail, Contact Number.

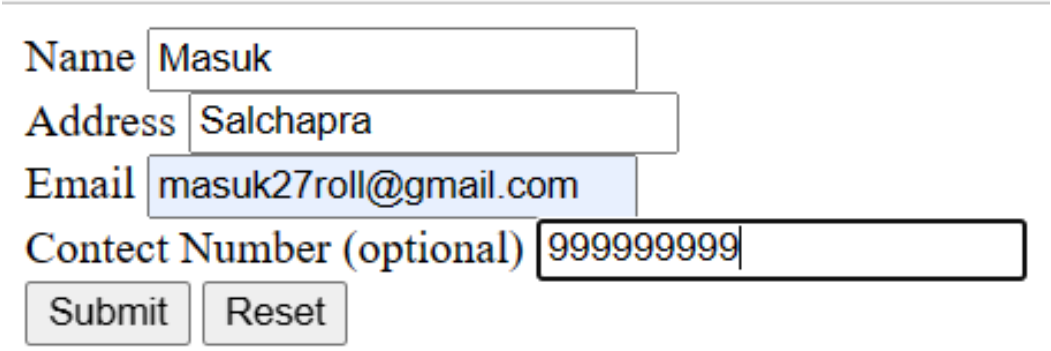
Objective of the program:

The main objective of the program is to create a HTML form that has the following attribute Name, Address, E-mail, Contact Number.

Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Basic Form</title>
</head>
<body>
    <form>
        <div >
            <label for="name">Name</label>
            <input type="text" name="name" id="name" placeholder="Enter Your
Name" required>
        </div>
        <div >
            <label for="name">Address</label>
            <input type="text" name="address" id="address" placeholder="Enter
Your Address" required>
        </div>
        <div >
            <label  for="email">Email</label>
            <input type="email" name="email" id="email" placeholder="Enter
your Email" required>
        </div>
        <div >
            <label for="number"> Contect Number <span class="clue"
>(optional)</span></label>
            <input type="tel" name="MobNo" id="MobNo" placeholder="Contect
Number">
         </div>
         <div>
            <button type="submit">Submit</button>
            <button type="reset">Reset</button>
        </div>
    </form>

</body>
</html>
```

Output:


Name Masuk
Address Salchapra
Email masuk27roll@gmail.com
Contect Number (optional) 999999999
Submit
Reset

Date of Experiment: 25/11/2022

Q:9: Write a code in HTML to-

a. Lay out pages using tables;
b. Create navigation bars;

Objective of the program:

Using HTML we have to create Lay out pages using tables and also we have to a navigation bars.

Code:

// for Layout pages

```
<!DOCTYPE html>

<html>
<head>
<title>Basic HTML Layout using Tables</title>
</head>
<body>
<table width="100%" border="1"  align="center">
  <tr>
    <td colspan="2" bgcolor="green">
      <h1>Website Title or Header</h1>
    </td>
  </tr>
  <tr valign="top">
    <td bgcolor="lightblue" width="25%">
      This is section area...
    </td>
    <td bgcolor="orange" width="60%" height="200">
        This is the main content area.
    </td>
  </tr>
  <tr>
    <td colspan="2" bgcolor="skyblue" align="center">
      Created by masuk
    </td>
  </tr>
</table>
</body>
</html>
```

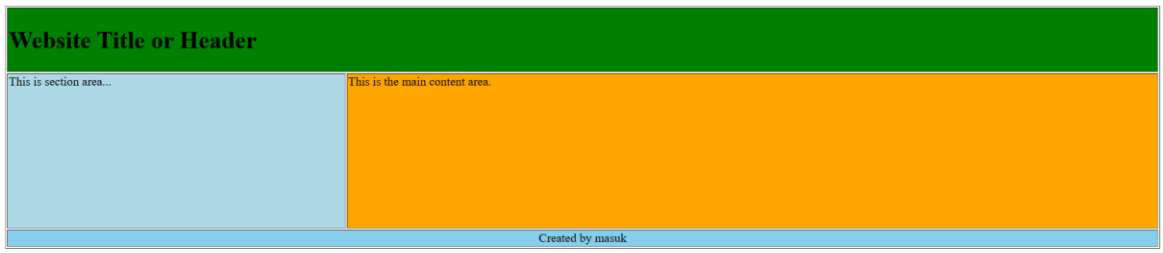
// for Navigation bars

```
<!DOCTYPE html>
<html lang="en">
<head>

    <title>Navigation Bar</title>
```

```
<style type="text/css">

header {
background-color: orange;
position: fixed;
left: 0;
right: 0;
top: 5px;
height: 30px;

align-items: center;
display: inline;
}
header * {
display: inline;
}
header li {
margin: 20px;
}
header li a {
color: blue;
text-decoration: none;
}
    </style>
</head>
<body>
    <header>
        <nav>
        <ul>
        <li>
        <a href="./InsertImg.html"> Home </a>
        </li>
        <li>
        <a href="./layoutP.html"> About </a>
        </li>
        <li>
        <a href="./Form.html"> Contact </a>
        </li>
        <li> <a href="#"> Terms of use </a>
        </li>
        <li>
        <a href="./tabularForm.html"> Join Us </a>
        </li>
        </ul>
        </nav>
        </header>
        If you not find anything its your browser problem not mine...
</body>
</html>
```

Output:

(a)


Website Title or Header
This is section area...
This is the main content area.
Created by masuk

(b)


Home
About
Contact
Terms of use
Join Us

Date of Experiment: 25/11/2022

Q:10: Write a Java Script code to pick a phrase from an array of sentences.

Objective of the program:

The main objective is to pick a phrase from an array of sentences using JavaScript.

Code:

```
<html>
<head>
<title> Phrase </title>
</head>
<body>
<script>
var keywords = ["Moinak", "Masuk", "Srijani", "Swapnil"];
var sentence = ["My Name is Masuk. My best friend is Swapnil and Moinak. We
have four friend including Srijani"];
const matched = [];
for (var index = 0; index < sentence.length; index++) {
   for (var outerIndex = 0; outerIndex < keywords.length; outerIndex++) {
      if (sentence[index].includes(keywords[outerIndex])) {
         matched.push(keywords[outerIndex]);
      }
   }
}
document.write("The matched elements are:-"+matched);

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

Output:

The matched elements are:-Moinak,Masuk,Srijani,Swapnil

Date of Experiment: 28/11/2022

Q:11: Write a JavaScript to show event on button and list.

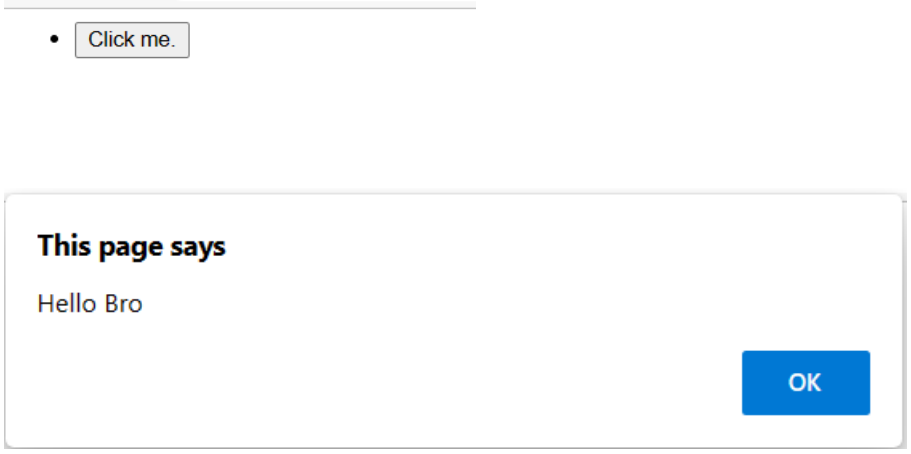
Objective of the program:

The main objective is to show event on button and list using JavaScript.

Code:

```
<html>
<head>
    <title> Event </title>
</head>
<body>
    <ul>
        <li > <button onclick="alert('Hello Bro')">Click me.</button> </li>
    </ul>
</body>
</html>
```

Output:



Date of Experiment: 28/11/2022

Q:12: Print a table of numbers from 5 to 15 and their squares and cubes in tabular format using JavaScript.

Objective of the experiment:

The main Objective of this program is to Print a table of numbers from 5 to 15 and their squares and cubes in tabular format using JavaScript.

Code:

```
<html lang = "en">
<head>
  <title> Number Table </title>
  <meta charset = "utf-8" />
</head>

<body>
   <button onclick="displayTable()">Display Table</button>
<script type = "text/javascript">
   function displayTable() {
     var number, square, cube;

     document.write("<table border = '4'>");
     document.write("<tr>",
                "<th> Number </th>",
                "<th> Square </th>",
                "<th> Cube </th>",
                "</tr>");

     for (number = 5; number < 16; number++)  {
        square = number * number;
        cube = number * square;
        document.write("<tr>",
```

```
                "<td>" + number + "</td>",
                "<td>" + square + "</td>",
                "<td>" + cube + "</td>",
                "</tr>");
        }
        document.write("</table>");
      }
</script>
</body>
</html>
```

Output:

Display Table

Number	Square	Cube
5	25	125
6	36	216
7	49	343
8	64	512
9	81	729
10	100	1000
11	121	1331
12	144	1728
13	169	2197
14	196	2744
15	225	3375

Date of Experiment: 01/12/2022

Q:13: Print the largest of three number.

Objective of the program:

The main objective is to Print the largest of three number using JavaScript.

Code:

```
<html>
  <head>
    <title>
      Largest of three number
    </title>
  </head>

  <body>
    <script type="text/javascript">
        function greatest() {
            var n1, n2, n3, grt;
            n1 = parseInt(document.getElementById("no1").value);
            n2 = parseInt(document.getElementById("no2").value);
            n3 = parseInt(document.getElementById("no3").value);
            if (n1 > n2 && n1 > n3)
                grt = n1;
            else if (n2 > n1 && n2 > n3)
                grt = n2;
            else
                grt = n3;

            document.write("The Largest number is " + grt);
        }
    </script>

    Enter First Number <br>
    <input type="text" id="no1">
    <br>
    Enter Second Number <br>
    <input type="text" id="no2">
    <br>
    Enter Third Number <br>
    <input type="text" id="no3">
    <br>
    <br>
    <input type="button" value="Find the largest" onclick="greatest()">
  </body>

</html>
```

Output:

Enter First Number
45
Enter Second Number
78
Enter Third Number
23

Find the largest

The Largest number is 78

Date of Experiment: 01/12/2022

Q:14: Find the factorial of a number n.

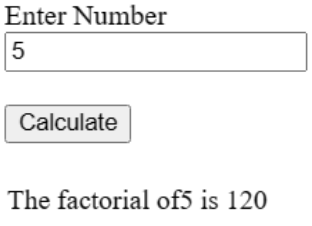
Objective of the program:

The objective of the program is to Find the factorial of a number n using JavaScript.

Code:

```
<!DOCTYPE html>
<html>
  <head>
    <title>
      Factorial of a number
    </title>
  </head>

<body>
    <script type="text/javascript">
        function factorial() {
            var n, f;
            f = 1;
            n = parseInt(document.getElementById("num").value);
            for (var i = 1; i <= n; i++) {
                f = f * i;
            }
            document.write("The factorial of" + n + " is " + f);
        }
    </script>

    Enter Number
    <br>
    <input type="text" id="num">
    <br>
    <br>
    <input type="button" value="Calculate" onclick="factorial()">

</body>

</html>
```

Output:



Date of Experiment: 14/12/2022

Q:15: Enter a list of positive numbers terminated by Zero. Find the sum and average of these numbers.

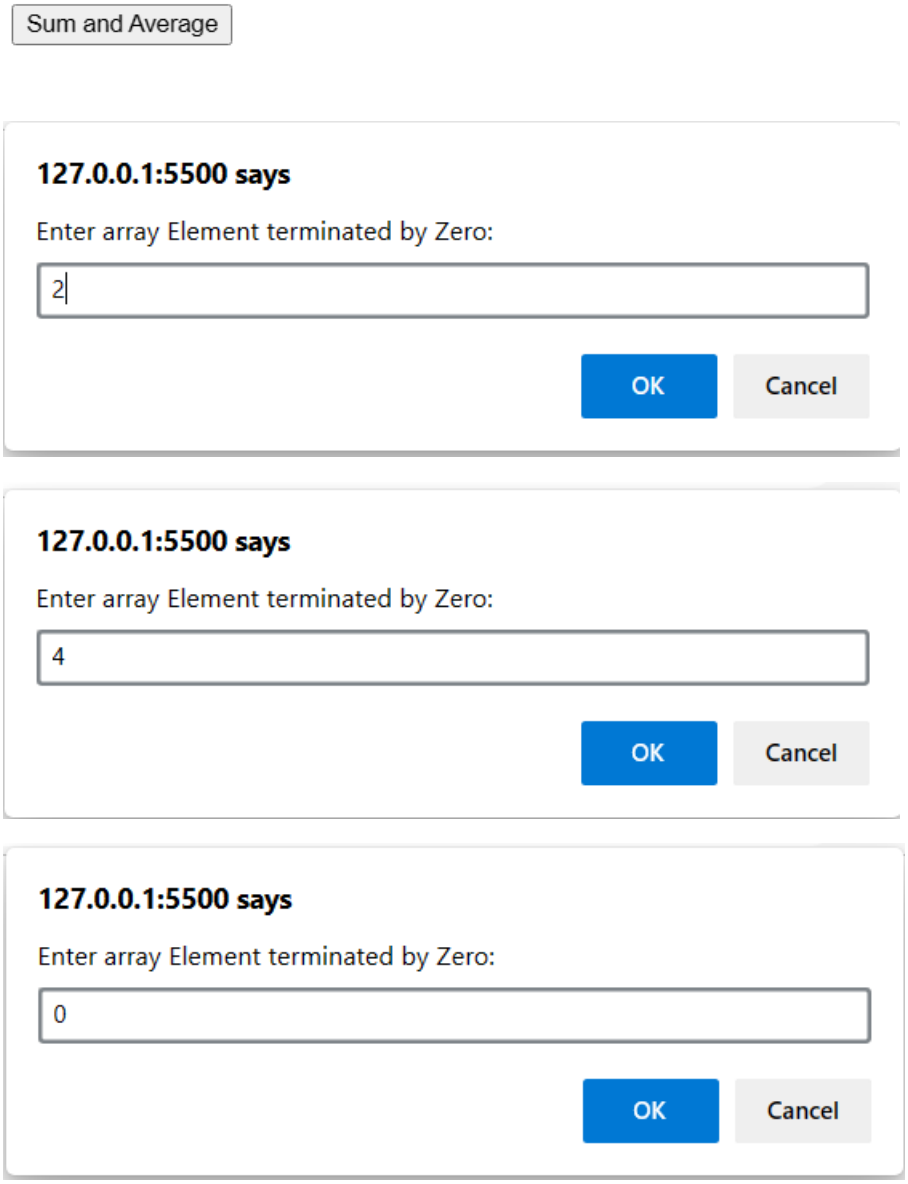
Objective of the program:

The main objective is to Enter a list of positive numbers terminated by Zero also we have to the sum and average of these numbers using JavaScript.

Code:

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

  <head>
    <title>
      Average of number
    </title>
  </head>

  <body>
    <input type="button" value="Sum and Average" onclick="average()">
    <script>
        function average() {
            var sum = 0;
            var num;
            var x, i;
            for (i=1; ; i++){
                num = prompt("Enter array Element terminated by Zero: ");
                var x = parseInt(num);
                sum += x;
                if (num == 0) {
                    var av = (sum / i);
                    document.write("Sum is: " + sum + " and " + " Average is:
" + av);
                    break;
                }
            }
        }
    </script>
  </body>

</html>
```

Output:


Sum and Average
127.0.0.1:5500 says
Enter array Element terminated by Zero:
2
OK
Cancel
127.0.0.1:5500 says
Enter array Element terminated by Zero:
4
OK
Cancel
127.0.0.1:5500 says
Enter array Element terminated by Zero:
0
OK
Cancel
Sum is: 6 and Average is: 2

Date of Experiment: 14/12/2022

Q:16: A person deposits Rs 1000 in a fixed account yielding 5% interest. Compute the amount in the account at the end of each year for n years.

Objective of the experiment:

The main objective of the program is to Compute the amount in the account at the end of each year for n years using JavaScript.

Code:

```
<!DOCTYPE html>
<html>
  <head>
    <title>
      Amount in the account
    </title>
  </head>
  <body>
    Enter number of years::::::::::<br>
    <input id="n">


    <input type="button" value="Compute interest and amount " onclick="avg()">
    <script>
       function avg() {
          var t = parseInt(document.getElementById("n").value);
          for (var i = 1; i <= t; i++) {
             var interest = parseInt((1000 * 5 * i) / 100);
          document.write("Interest after " + i + " year is :<b>" + interest + "</b> and total amount after
" + i + " years" + " becomes:<b>" + (interest + 1000) + "</b><br>")
          }
       }
    </script>
  </body>
</html>
```

Output:

Enter number of years::::::::::
10 Compute interest and amount

Interest after 1 year is :**50** and total amount after 1 years becomes:**1050**
Interest after 2 year is :**100** and total amount after 2 years becomes:**1100**
Interest after 3 year is :**150** and total amount after 3 years becomes:**1150**
Interest after 4 year is :**200** and total amount after 4 years becomes:**1200**
Interest after 5 year is :**250** and total amount after 5 years becomes:**1250**
Interest after 6 year is :**300** and total amount after 6 years becomes:**1300**
Interest after 7 year is :**350** and total amount after 7 years becomes:**1350**
Interest after 8 year is :**400** and total amount after 8 years becomes:**1400**
Interest after 9 year is :**450** and total amount after 9 years becomes:**1450**
Interest after 10 year is :**500** and total amount after 10 years becomes:**1500**

Date of experiment: 14/12/23

Q:17: Read n numbers. Count the number of negative numbers, positive numbers and zeros in the list.

Objective of the experiment:

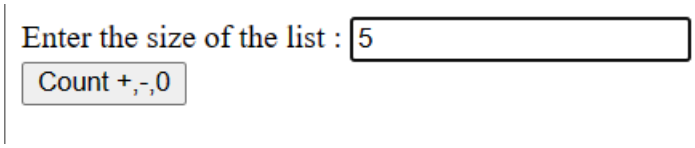
Using JavaScript Read n numbers. Count the number of negative numbers, positive numbers and zeros in the list.

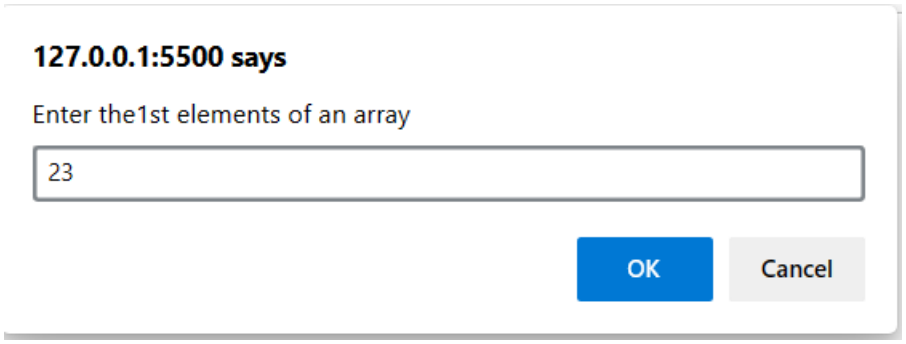
Code:

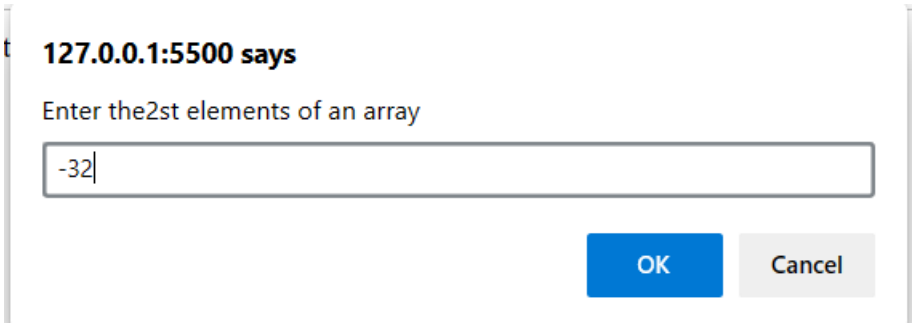
```
<!DOCTYPE html>
<html lang="en">
  <body>


    Enter the size of the list : <input id="n1"><br>
    <input type="button" value="Count +,-,0" onclick="avg()">
    <script type="text/javascript">
        function counter(ar) {
            var array1 = [0, 0, 0];
            for (var i = 0; i < ar.length; i++) {
                switch (ar[i] < 0) {
                    case true: array1[0]++;
                        break;
                    case false:
                        if (ar[i] == 0) array1[1]++;
                        else array1[2]++;
                        break;
                    default: break;
                }
            } return (array1);
        }
        function avg() {
            var ar1 = [];
            var n = parseInt(document.getElementById("n1").value);
            var ar = [];
            var size = n;
            for (var a = 0; a < size; a++) {


                ar[a] = prompt("Enter the" + (a + 1) + "st elements of an
array");
            }
            document.write(" Elements are : " + "<br>");
            for (var j = 0; j < ar.length; j++) {
                document.write(ar[j] + '<br>')
            }
            document.write("_____" + "<br>");
```

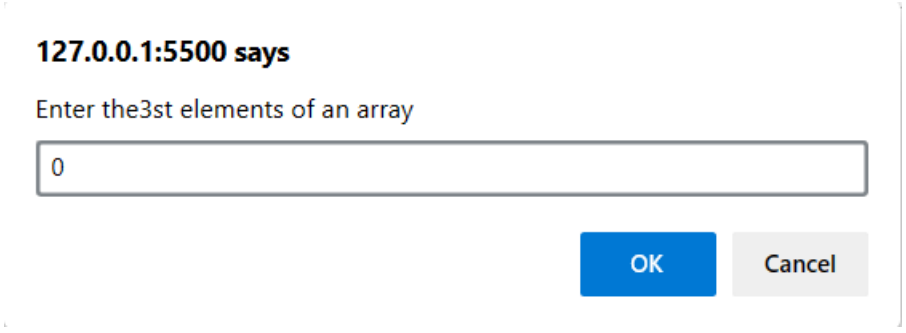
```
            ar1 = counter(ar);
            document.write("No of Negative Elements are : " + ar1[0] +
"<br>");
            document.write("No of Zero  Elements are : " + ar1[1] + "<br>");
            document.write("No of Positive Elements are : " + ar1[2] +
"<br>");
        }
    </script>
  </body>
</html>
```

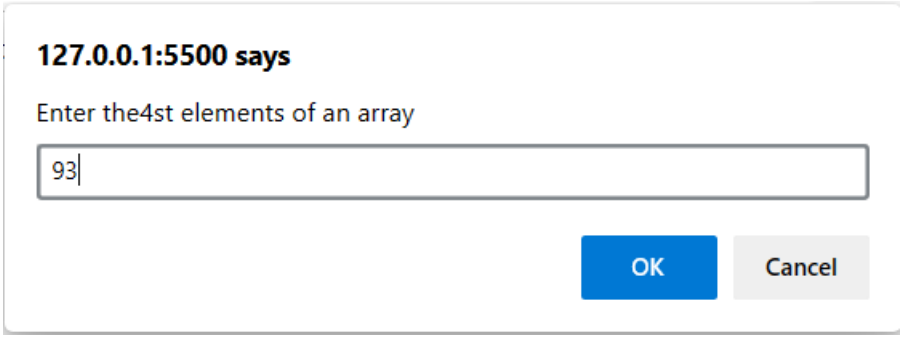
Output:

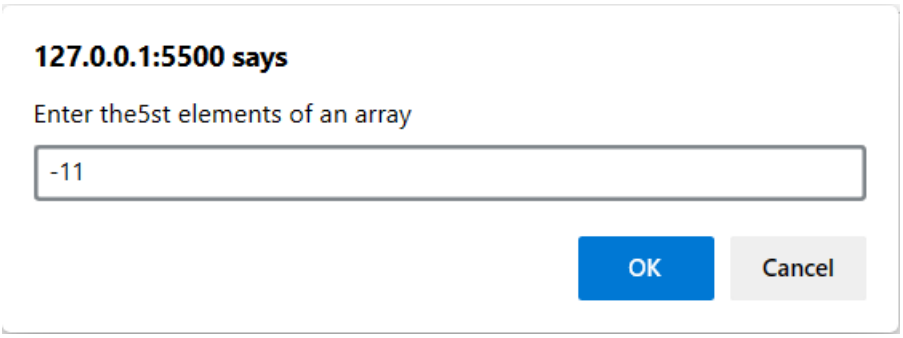












Elements are :
23
-32
0
93
-11

No of Negative Elements are : 2
No of Zero Elements are : 1
No of Positive Elements are : 2