

EXPERIMENT NO.:-1

Q: 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:-

```
<!DOCTYPE html>
<html>
<head>
<title>Insert Image</title>
</head>
<body>
<h1>Back ground 1</h1>
<p></p>
<p></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)

// Three heading of different sizes

Different types of Heading...

Different types of Heading...

Different types of Heading...

EXPERIMENT NO.:-2

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

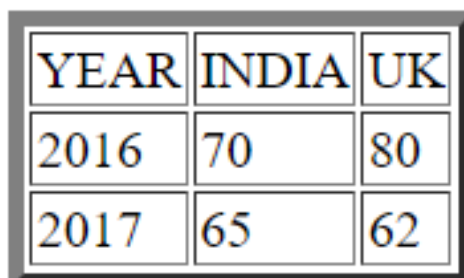
Year	India	UK
2016	70	80
2017	65	62

Objective of the experiment:-The main objective is to demonstrate how to insert a table in a web page using html.

Code:

```
<html>
<head>
    <title>"TABLEUK"</title>
</head>
<body >
<table border="5">
<tr><td>YEAR</td><td>INDIA</td><td>UK</td></tr>
<tr><td>2016</td><td>70</td><td>80</td></tr>
<tr><td>2017</td><td>65</td><td>62</td></tr>
</table>
<a href="table 2.html">back</a>
</body>
</html>
```

Output:-



YEAR	INDIA	UK
2016	70	80
2017	65	62

EXPERIMENT NO.:-3

Q: 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:

Enter Second Number:

Product

This page says

Product is: 15

OK

EXPERIMENT NO.:-4

Q: 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
moinak	7064	5th	BCA	2021

EXPERIMENT NO.:5

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:



Tree View Result:



EXPERIMENT NO.:-6

Q. : 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:-

Enter the text:

tpircs avaj

EXPERIMENT NO.:-7

Q. 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 7

EXPERIMENT NO.:8

Q. 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

Address

Email

Contect Number (optional)

EXPERIMENT NO.:-9

Q: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="10" align="center">
<tr>
<td colspan="2" bgcolor="pink">
<h1>Website Title or Header</h1>
</td>
</tr>
<tr valign="top">
<td bgcolor="lightblue" width="25%">
This is section area...
</td>
<td bgcolor="cyan" width="60%" height="200">
This is the main content area.
</td>
</tr>
<tr>
<td colspan="2" bgcolor="cream" align="center">
Created by moinak
</td>
</tr>
</table>
</body>
</html>
// for Navigation bars
<!DOCTYPE html>
```

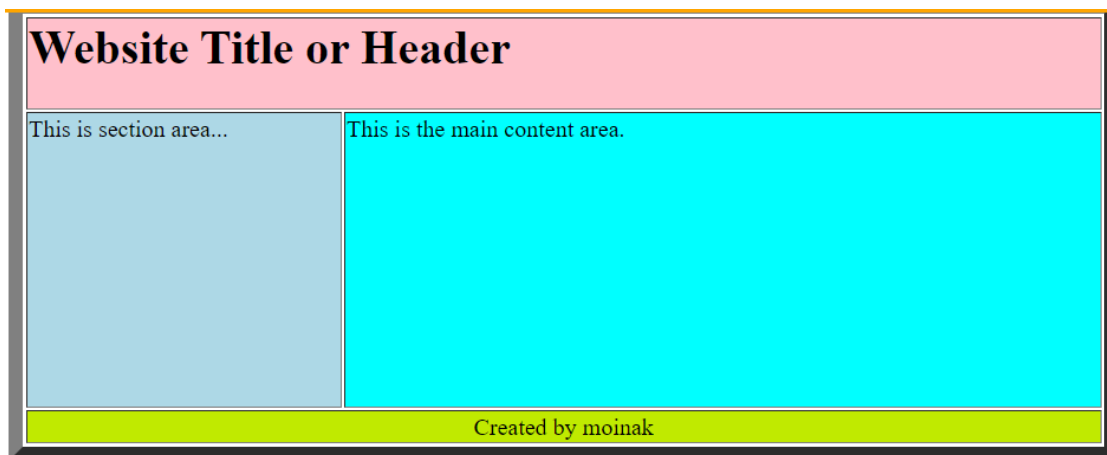
```
<html lang="en">
<head>
<title>Navigation Bar</title>
<style type="text/css">

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...(sorry)
</body>
</html>
```

Output:-

a)



b)



EXPERIMENT NO.:-10

Q. 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 = ["I", "am", "moinak",];
    var sentence = ["Hello, I am moinak and my friends are
Swapnil and masuk. 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:-I,am,moinak

EXPERIMENT NO.:-11

Q. 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('zandu balm')">Click
me.</button> </li>
</ul>
</body>
</html>
```

Output:-

- 

This page says
zandu balm

EXPERIMENT NO.:-12

Q: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:

```
<!DOCTYPE html>
<!-- e4_1.html - A solution to Exercise 4.1
-->
<html lang = "en">
<head>
<title> Number Table </title>
<meta charset = "utf-8" />
</head>
<body>
<script type = "text/javascript">
<!--
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:-

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

EXPERIMENT NO.:-13

Q. 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

5

Enter Second Number

16

Enter Third Number

55

Find the largest

The Largest number is 55

EXPERIMENT NO.:-14**Q: 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:-

Enter Number

5

Calculate

The factorial of 5 is 120

EXPERIMENT NO.:15

Q: 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>
      Question Number 4
    </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

EXPERIMENT NO.:-16

**Q: 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>

      Question 5

    </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:.....:

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**

EXPERIMENT NO.:-17

Q: 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:-

Enter the size of the list :

Count +,-,0

Enter the 1st elements of an array

Enter the 2nd elements of an array

-35

Enter the 3rd elements of an array

0

Enter the 4th elements of an array

92

Enter the 5th elements of an array

-23

Elements are :

22

-35

0

92

-23

No of Negative Elements are : 2

No of Zero Elements are : 1

No of Positive Elements are : 2