PRACTICAL ON INTERNET TECHNOLOGIES

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Paper Code: CACDSE504L

1 Write a program in HTML of the following:

- 1. To insert two image files.
- 2. To use hyperlink to connect two pages.
- 3. To insert three headings of different sizes.

Date of Experiment:

07/11/2022

Objective:

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.

```
<html>
<head>
    <title>
        Question 1
        </title>
</head>
<body>
        <a href="secondpage.html">Next Page</a><br>
<h1>Images</h1>
        <img src="img/picture1.png" width="500px" alt="Man and Women" /><br>
        <img src="img/picture2.png" width="500px" alt="Woman" />
</body>
</html>
```

Next Page

Images



Figure 1: First Page

Second Page for question 1

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

Previous page

Figure 2: Second Page

2 Write a program in HTML to display the following table

Year	India	UK
2016	70	80
2017	65	62

Date of Experiment:

07/11/2022

Objective:

Demonstrate how to insert a table in a web page using html.

Program:

Output:

Year	India	UK
2016	70	80
2017	65	62

3 Write a program in JavaScript to multiply two numbers using two text boxes, one command button and on-click event handler

Date of Experiment:

07/11/2022

Objective:

Multiply two numbers using two text boxes, one command button and on-click event handler.

```
<html>
 <head>
   <title>
     Question 3
   </title>
 </head>
 <body>
   <script>
   function multiply() {
     n1 = document.getElementById("frst").value;
     n2 = document.getElementById("scnd").value;
     document.getElementById("result").innerHTML=n1*n2;
   }
 </script>
   Enter 1st number: <input type="text" id="frst" /> <br>
   Enter 2nd number: <input type="text" id="scnd" /> <br>
   <input type="button" value="Calculate" onclick="multiply()" />
   <h1 id="result"></h1>
 </body>
</html>
```

Enter 1st number: 34
Enter 2nd number: 2
Calculate

68

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

Date of Experiment:

08/11/2022

Objective:

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

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

Name	Roll no	Semester	Department	Year	
Swapnil	7070	5	Computer science	2023	1

5 Write a program to design a database of a student with attributesname, roll no, contact no, DOB, department, year in XML.

Date of Experiment:

10/11/2022

Objective:

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

```
<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>
   <br/><birth>10-05-2000</birth>
   <br/><birth>23-03-2001</birth>
   <br/><br/>th>13-09-2002</br/>birth>
   <birth>23-06-2002</pirth>
```

This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
▼<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>
    <br/><br/>dirth>10-05-2000</br/>/birth>
    <birth>23-03-2001</pirth>
    <br/><br/>dirth>13-09-2002</br/>/birth>
    <br/><br/>dirth>23-06-2002</br/>/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>
```

6 Write a JavaScript program to display a character string in the reverse order.

Date of Experiment:

10/11/2022

Objective:

Display a character string in the reverse order using JavaScript.

```
<html>
 <head>
   <title>
     JavaScript program to display a character string in the reverse order.
 </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>
```

Enter the text: SwapniL Reverse

LinpawS

7 Write a JavaScript code to count the number of digits in a given number.

Date of Experiment:

14/11/2022

Objective:

Count the number of digits in a given number using JavaScript.

Program:

```
<html>
 <head>
   <title>
     Write a JavaScript code to count the number of digits in a given number.
 </head>
 <body>
 <script>
   function numcount() {
     let count = 0;
     input = document.getElementById("numinput").value;
     document.getElementById("output").innerHTML = input.length;
   }
 </script>
 Enter the number: <input type="text" id="numinput" />
   <input type="button" id="button" onclick="numcount()" value="Count" />
   <h1 id="output"></h1>
 </body>
</html>
```

Output:

Enter the number: 12452 Count

5

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

Date of Experiment:

14/11/2022

Objective:

Create a HTML form that has the following attribute Name, Address, E-mail, Contact Number.

```
<html>
 <head>
   <title>Basic Form
   </title>
 </head>
 <body>
   <form>
     <div>
       <label for="name">Name:
       </label>
       <input type="text" required>
     </div>
     < div >
       <label for="name">Address:
       </label>
       <input type="text" required>
     </div>
     <div >
       <label for="email">Email:
       </label>
       <input type="email" required>
     </div>
     < div >
       <label for="number"> Contect Number
         <span class="clue">(optional):</span>
```

Name: Swapnil
Address: Karimganj

Email: swapnilb.kc@gmail.com

Contect Number (optional): 0123456789

Submit Reset

9 Write a code in HTML to

- 1. Layout pages using tables;
- 2. Create navigation bars;

Date of Experiment:

25/11/2022

Objective:

Create layout pages using tables and also we have to a navigation bars.

Program:

1. Layout pages using tables:

```
<html>
<head>
 <title>Basic HTML Layout using Tables
</head>
<body>
 <h1>Website Title or Header
   </h1>
  This is section area...
  This is the main content area.
  Created by swapnil
```

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

2. Create navigation bars:

```
<html>
 <head>
   <title>Navigation Bar
   </title>
   <style type="text/css">
     header {
      background-color: black;
      position: fixed;
      left: 0;
      right: 0;
      top: 10px;
      height: 30px;
      align-items: center;
      display: inline;
     header * {
      display: inline;
    header li {
      margin: 20px;
    header li a {
      color: white;
      text-decoration: none;
     }
   </style>
 </head>
 <body>
   <header>
     <nav>
      <l
        <a href="./InsertImg.html">Home</a> 
        <a href="./layoutP.html">About</a> 
        <a href="./Form.html">Contact</a>
```

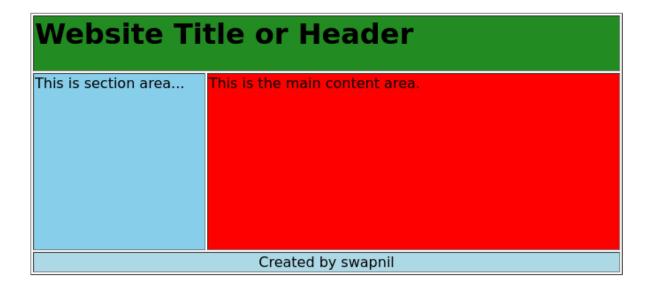


Figure 1: Layout pages using tables

Home	About	Contact	Terms of use	

Figure 2: Create navigation bars

10 Write a JavaScript code to pick a phrase from an array of sent

Date of Experiment:

25/11/2022

Objective:

Pick a phrase from an array of sentences using JavaScript.

Program:

```
<html>
 <body>
   <script>
     var keywords = ["Moinak", "Masuk", "Srijani", "Swapnil"];
     var sentence = ["Hello, I am Swapnil and my friends are Masuk, Moinak
                      and Srijani"];
     const matched = [];
     for (var index = 0; index < sentence.length; index++) {</pre>
       for (var outerIndex = 0; outerIndex < keywords.length; outerIndex++) {</pre>
         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

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

Date of Experiment:

28/11/2022

Objective:

Show event on button and list using JavaScript.

Program:

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

>
<button onclick="alert('Hello World')">Click me.
</button>

</body>
</html>
```

Output:



Write a program that prints a table of numbers from 5 to 15 and their squares and cubes using alert.

Date of Experiment:

28/11/2022

Objective:

Print a table of numbers from 5 to 15 and their squares and cubes using alert.

```
<html>
 <head>
   <title>
     Write a program that prints a table of numbers from 5 to 15 and their
     squares and cubes using alert.
   </title>
 </head>
 <body>
   <input type="button" id="output" value="Click the button" />
   <script>
     function printtab() {
      var out = "";
      for (i = 5; i <= 15; i++) {
         alert("square of "+i+" is "+i*i+" and the cube is "+i*i*i);
      }
     document.getElementById("output").addEventListener("click", printtab);
   </script>
 </body>
</html>
```

Click the button



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13 Write a program that prints the largest of three number.

Date of Experiment:

01/12/2022

Objective:

Print the largest of three number using JavaScript.

```
<html>
 <head>
   <title>
     Print the largest of three number using JavaScript.
   </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">
```

Enter Number	
5	
Calculate	

The factorial of5 is 120

Write a program that finds the factorial of a number n.

Date of Experiment:

01/12/2022

Objective:

Find the factorial of a number n.

```
<html>
 <head>
   <title>
     Question Number 3
   </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>
```

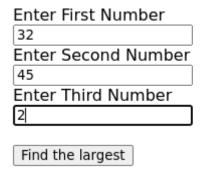


Figure 1: Input

The Largest number is 45

Figure 2: Result

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

Date of Experiment:

14/12/2022

Objective:

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

```
<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>
```

Sum and Average

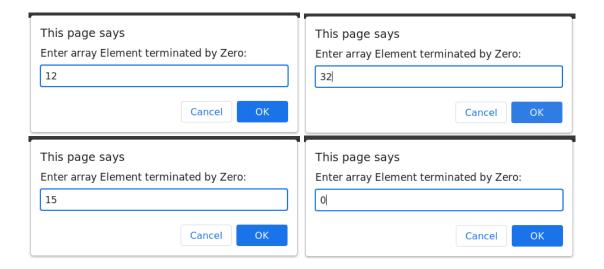


Figure 1: Input

Sum is: 59 and Average is: 14.75

Figure 2: Result

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.

Date of Experiment:

14/12/2022

Objective:

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.

```
<html>
 <head>
   <title>
     Question 5
   </title>
 </head>
 <body>
   Enter number of years::::::::
   <br>
   <input id="n">
   <input type="button" value="Compute intrst 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>
```



Figure 1: Input

```
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 11 years becomes:1500
Interest after 12 year is :600 and total amount after 12 years becomes:1600
Interest after 13 year is :650 and total amount after 13 years becomes:1650
Interest after 14 year is :700 and total amount after 14 years becomes:1700
Interest after 15 year is :750 and total amount after 15 years becomes:1750
```

Figure 2: Result

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

Date of Experiment:

14/12/22

Objective:

Count the number of negative numbers, positive numbers and zeros in the list.

```
<html>
 <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++) {</pre>
         switch (ar[i] < 0) {</pre>
           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>
```



Figure 1: Input

```
Elements are :
-32
42
-9
No of Negative Elements are : 2
No of Zero Elements are : 0
No of Positive Elements are : 1
```

Figure 2: Result