

GOVERNMENT COLLEGE OF ENGINEERING-THANJAVUR

ASSIGNMENT-3

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YEAR : III
DEPT : COMPUTER SCIENCE AND ENGINEERING
SUBJECT CODE : CCS375
SUBJECT NAME : WEB TECHNOLOGIES
DATE : 29-02-2024

PROGRAM:

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Document</title>

    <link rel="stylesheet" href="front.css">

</head>

<body>

    <table border="1" width="100%" height="600px">

        <tr>

            <td width="30%">

                <div class="left" align="center">

                    <a target="programs" href="palindrome.html">1.PALINDROME</a><br>

                    <a target="programs" href="prime.html">2.PRIME</a><br>

                    <a target="programs" href="listprime.html">3.LIST OF PRIME
NUMBERS</a><br>

                    <a target="programs" href="minmax.html">4.MIN AND MAX IN
ARRAY</a><br>

                    <a target="programs" href="fibonacci.html">5.FIBBONACCI SERIES</a><br>

                    <a target="programs" href="unique.html".html">6.UNIQUE ELEMENT IN AN
ARRAY</a><br>
```

```

<a target="programs" href="titlecase.html">7.TITLE CASE</a><br>

<a target="programs" href="merge.html">8.MERGE THE SORTED
ARRAY</a><br>

<a target="programs" href="nested.html">9.NESTED ARRAY</a>

</div>

</td>

<td width="70%">

<iframe src="" name="programs" frameborder="4" height="600px"
width="100%"></iframe>

</td>

</tr>

</table>

</body>

</html>

```



1. Write a JavaScript function to check if a given string is a palindrome.

```
<html>

<head>

<title>PALINDROME</title>

<link rel="stylesheet" href="front.css">

<script>

    function check()

    {

        var t1=document.getElementById("input").value;

        let str="";

        for(var i=t1.length;i>=0;i--)

        {

            str=str+t1.charAt(i);

        }

        if(t1===str)

        {

            document.getElementById("result").value="YES,THAT'S PALINDROME";

        }

        else

        {

            document.getElementById("result").value="OOPs THAT'S NOT A

PALINDROME";

        }

    }

}
```

```

    }

</script>

</head>

<body>

    <div class="bor" align="center" >

        <form>

            <table class="table" border="0" cellpadding="4px" width="100%">

                <caption><h1>PALINDROME OR NOT</h1></caption>

                <tr>

                    <td><label>ENTER THE WORD:</label></td>

                    <td><input type="text" id="input"></td>

                </tr>

                <tr >

                    <td colspan="2" align="center">

                        <input class="button" type="button" value="CHECK" onclick="check()">

                    </td>

                </tr>

                <tr>

                    <td>SO THE ABOVE TEXTED WORD IS:</td>

                    <td><input type="text" id="result"></td>

                </tr>

            </table>

```

```

    </form>

  </div>

</body>

</html>

```

2. Write a JavaScript function to check if a given number is prime.

```

<html>

<head>

  <title>PRIME NUMBER</title>

  <link rel="stylesheet" href="front.css">

  <script>

    function check()

    {

```

```

var t1=document.getElementById("input").value;

var n=0;

if(t1>0)
{
    for(var i=1;i<=t1;i++)
    {
        if(t1%i===0)
            n++;
    }
    if(n<=2)
    {
        document.getElementById("output").value="PRIME NUMBER";
    }
    else
    {
        document.getElementById("output").value="NOT A PRIME NUMBER";
    }
}
else if(t1==0)
alert("ZERO is not a prime and not a composite number");
else
{
    alert("INVALID SYNTAX");
}

```

```

    }

}

</script>

</head>

<body>

<div class="bor" align="center" >

    <form>

<table class="table" border="0" cellpadding="4px" width="500px">

    <caption><h1>PRIME OR NOT</h1></caption>

    <tr>

        <td><label>ENTER A NUMBER:</label></td>

        <td><input type="text" id="input"></td>

    </tr>

    <tr>

        <td colspan="2" align="center"><input class="button" type="button" id="q"
value="CHECK" onclick="check()"></td>

    </tr>

    <tr>

        <td><label>SO THE ABOVE NUMBER IS:</label></td>

        <td><input type="text" id="output"></td>

    </tr>

```



```

        </table>

        </form>

    </div>

</body>

</html>

```

3. Write a java script function to display the list of prime numbers from 1 to n.

```

<html>

<head>

    <title>LIST OF PRIME NUMBERS</title>

    <link rel="stylesheet" href="front.css">

```

```
<script>

function show()

{

var arr=[];

var n=document.getElementById("input").value;

var flag=0;

var lv=0;

if(n>0)

{

for(var i=1;i<=n;i++)

{

for( var j=1;j<=i;j++)

{

if(i%j==0)

flag++;

}

if(i!=1 && flag<=2)

{

arr[lv++]=i;

}

flag=0;

}

}
```

```

        else

        alert("erroer");

        document.getElementById("output").value=arr;

    }

</script>

</head>

<body>

<div class="bor" align="center" >

    <form>

<table class="table" border="0" cellpadding="4px" width="500px">

    <caption><h1>PRIME NUMBERS</h1></caption>

    <tr>

        <td><label>ENTER A NUMBER UP:</label></td>

        <td><input type="text" id="input"> </td>

    </tr>

    <tr>

        <td colspan="2" align="center"><input class="button" type="button"
onclick="show()" value="LIST"></td>

    </tr>

    <tr>

        <td>RESULT</td>

```

```

        <td> <input type="text" id="output"></td>

    </tr>

</table>

</form>

</div>

</body>

</html>

```

<div>1.PALINDROME</div> <div>2.PRIME</div> <div>3.LIST OF PRIME NUMBERS</div> <div>4.MIN AND MAX IN ARRAY</div> <div>5.FIBBONACCI SERIES</div> <div>6.UNIQUE ELEMENT IN AN ARRAY</div> <div>7.TITLE CASE</div> <div>8.MERGE THE SORTED ARRAY</div> <div>9.NESTED ARRAY</div>	<div> <h2>PRIME NUMBERS</h2> <p>ENTER A NUMBER UP: <input type="text" value="7"/></p> <p><input type="button" value="LIST"/></p> <p>RESULT <input type="text" value="2,3,5,7"/></p> </div>
--	--

4. Given an array of numbers, write a function to find the largest and smallest numbers in the array.

```

<html>

<head>

    <title>LARGEST AND SMALLEST NUMBERS</title>

```

```
<link rel="stylesheet" href="front.css">
```

```
<script>
```

```
function find()
```

```
{
```

```
var arr=new Array();
```

```
var n=document.getElementById("input").value;
```

```
for(var i=0;i<n;i++)
```

```
{
```

```
arr[i]=Number(window.prompt("Enter the Array Element "+(i+1)));
```

```
}
```

```
for(var i=0;i<n;i++)
```

```
{
```

```
for(var j=0;j<n;j++)
```

```
{
```

```
if(arr[j]>arr[j+1])
```

```
{
```

```
temp=arr[j];
```

```
arr[j]=arr[j+1];
```

```
arr[j+1]=temp;
```

```
}
```

```
}
```

```
}
```

```

        alert(arr);

        document.getElementById("output max").value=arr[arr.length-1];

        document.getElementById("output min").value=arr[0];

    }

</script>

</head>

<body>

    <div class="bor" align="center" >

        <form>

            <table class="table" border="0" cellpadding="4px" width="500px">

                <caption><h1>FIND LARGEST AND SMALLEST NUMBER</h1></caption>

                <tr>

                    <td>ENTER THE NUMBER</td>

                    <td><input type="text" id="input"></td>

                </tr>

                <tr>

                    <td colspan="2" align="center"><input class="button" type="button" onclick="find()"
value="FIND"></td>

                </tr>

                <tr>

                    <td>LARGEST NUMBER</td>

                    <td><input type="text" id="output max"></td>

```

```

        </tr>

        <tr>

            <td>SMALLEST NUMBER</td>

            <td><input type="text" id="output min"></td>

        </tr>

    </table>

</form>

</div>

</body>

</html>

```

<div>1.PALINDROME</div> <div>2.PRIME</div> <div>3.LIST OF PRIME NUMBERS</div> <div>4.MIN AND MAX IN ARRAY</div> <div>5.FIBBONACCI SERIES</div> <div>6.UNIQUE ELEMENT IN AN ARRAY</div> <div>7.TITLE CASE</div> <div>8.MERGE THE SORTED ARRAY</div> <div>9.NESTED ARRAY</div>	<div> <h2>FIND LARGEST AND SMALLEST NUMBER</h2> <p>ENTER THE NUMBER <input type="text" value="5"/></p> <p><input type="button" value="FIND"/></p> <p>LARGEST NUMBER <input type="text" value="78"/></p> <p>SMALLEST NUMBER <input type="text" value="12"/></p> </div>
--	---

5. Write a JavaScript function that returns the Fibonacci sequence up to a given number of terms.

```

<html>

<head>

<title>FIBBONACCI SERIES</title>

<link rel="stylesheet" href="front.css">

</head>

<body>

<div class="bor" align="center" >

<form>

<table class="table" border="0" cellpadding="4px" width="500px">

<caption><h1><h1>FIBONOC CI SERIES</h1></h1></caption>

<tr>

<td>ENTER THE NUMBER</td>

<td><input type="text" id="input"></td>

</tr>

<tr>

<td colspan="2" align="center"> <input class="button" type="button"
onclick="fibbo()" value="FIBBO SERIES">

</tr>

<tr>

<td>THE FIBBONACCI SERIES IS:</td>

<td > <input type="text" id="output"></td>

```



```
</tr>

</table>

</form>

</div>

<script>

function fibbo()

{

    var n=document.getElementById("input").value;

    var t1=0,t2=1;

    var t3;

    var arr=new Array();

    if(n>0)

    {

        for(var i=0;i<n;i++)

        {

            arr.push(t2);

            t3=t1+t2;

            t1=t2;

            t2=t3;

        }

        document.getElementById("output").value=arr;

    }

    else
```

```

        alert("Give me a Number");
    }

</script>

</body>

</html>

<html>

<head>

<title>FIBBONACCI SERIES</title>

<link rel="stylesheet" href="front.css">

</head>

<body>

<div class="bor" align="center" >

<form>

<table class="table" border="0" cellpadding="4px" width="500px">

<caption><h1><h1>FIBONOC CI SERIES</h1></h1></caption>

<tr>

<td>ENTER THE NUMBER</td>

<td><input type="text" id="input"></td>

</tr>

<tr>

```

```
        <td colspan="2" align="center"> <input class="button" type="button"
onclick="fibbo()" value="FIBBO SERIES">
```

```
    </tr>
```

```
    <tr>
```

```
        <td>THE FIBBONACCI SERIES IS:</td>
```

```
        <td > <input type="text" id="output"></td>
```

```
    </tr>
```

```
</table>
```

```
</form>
```

```
</div>
```

```
<script>
```

```
    function fibbo()
```

```
    {
```

```
        var n=document.getElementById("input").value;
```

```
        var t1=0,t2=1;
```

```
        var t3;
```

```
        var arr=new Array();
```

```
        if(n>0)
```

```
        {
```

```
            for(var i=0;i<n;i++)
```

```
            {
```

```
                arr.push(t2);
```

```

        t3=t1+t2;

        t1=t2;

        t2=t3;

    }

    document.getElementById("output").value=arr;

}

else

alert("Give me a Number");

}

</script>

</body>

</html>

```

<div>1.PALINDROME</div> <div>2.PRIME</div> <div>3.LIST OF PRIME NUMBERS</div> <div>4.MIN AND MAX IN ARRAY</div> <div>5.FIBBONACCI SERIES</div> <div>6.UNIQUE ELEMENT IN AN ARRAY</div> <div>7.TITLE CASE</div> <div>8.MERGE THE SORTED ARRAY</div> <div>9.NESTED ARRAY</div>	<div>FIBONOC CI SERIES</div> <div>ENTER THE NUMBER <input type="text" value="7"/></div> <div><input type="button" value="FIBBO SERIES"/></div> <div>THE FIBBONACCI SERIES IS: <input type="text" value="1,1,2,3,5,8,13"/></div>
--	--

6. Write a function that takes an array of integers as input and returns a new array with only the unique elements.

```
<html>

<head>

<title>UNIQUE</title>

<link rel="stylesheet" href="front.css">

<script>

function unique()

{

var arr1=new Array();

var arr2=new Array();

var n=document.getElementById("input").value;

var temp=0;

for(var i=0;i<n;i++)

{

arr1[i]=parseInt(window.prompt("enter the value" +(i+1)));

}

for(var i=0;i<n;i++)

{

if(i==0)

arr2.push(arr1[i]);

for(j=0;j<arr2.length;j++)

{
```

```

        if(arr1[i]==arr2[j])

            temp++

        }

        if(temp==0)

            arr2.push(arr1[i]);

        temp=0;

    }

    document.getElementById("output").value=arr2;

}

</script>

</head>

<body>

    <div class="bor" align="center" >

        <form>

            <table class="table" border="0" cellpadding="4px" width="500px">

                <caption> <h1>UNIQUE ELEMENTS</h1></caption>

                <tr>

                    <td><label for="">ENTER THE NUMBER:</label></td>

                    <td> <input type="text" id="input"></td>

                </tr>

                <tr>

```

```

        <td colspan="2" align="center"> <input class="BUTTON" type="button"
onclick="unique()" value="CLICK">

    </tr>

<tr>

    <td> <label for="">UNIQUE NO IS:</label></td>

    <td > <input type="text" id="output"></td>

</tr>

</table>

</form>

</div>

</body>

</html>4

```

<div>1.PALINDROME</div> <div>2.PRIME</div> <div>3.LIST OF PRIME NUMBERS</div> <div>4.MIN AND MAX IN ARRAY</div> <div>5.FIBBONACCI SERIES</div> <div>6.UNIQUE ELEMENT IN AN ARRAY</div> <div>7.TITLE CASE</div> <div>8.MERGE THE SORTED ARRAY</div> <div>9.NESTED ARRAY</div>	<div>UNIQUE ELEMENTS</div> <div>ENTER THE NUMBER: <input type="text" value="5"/></div> <div><input type="button" value="CLICK"/></div> <div>UNIQUE NO IS: <input type="text" value="34,56,2,1"/></div>
--	--

7. Write a JavaScript program to convert a string to title case.

```
<html>

<head>

<title>title case</title>

<link rel="stylesheet" href="front.css">

<script>

    function tcase()

    {

        var n;

        var str=document.getElementById("input").value;

        n=str.length;

        var t1;

        var t2;

        var string="";

        t1=0;

        for(var i=0;i<n;i++)

        {

            if(str.charAt(i)==" ")

            {

                t1=0;

            }

        }

    }

}
```



```

        else if(t1==0)

        {

            string=string+(str.charAt(i).toUpperCase());

            t1++;

            continue;

        }

        string=string+str.charAt(i);

    }

    document.getElementById("output").value=string;

}

</script>

</head>

<body>

<div class="bor" align="center" >

    <form>

        <table class="table" border="0" cellpadding="4px" width="500px">

            <caption> <h1>TITLE CASE</h1></caption>

            <tr>

                <td><label for="">ENTER THE WORDS:</label></td>

                <td><input type="text" id="input"></td>

            </tr>

            <tr>

```

```

<td colspan="2" align="center"> <input class="button" type="button" id="p" onclick="tcase()"
value="enter">

</tr>

<tr>          <td> <label for="">Title Case Word Is:</label></td>

          <td > <input type="text" id="output"></td>

</tr>

</table>

</form>

</div>

<form>

</form>

</body>

</html>

```

<div>1.PALINDROME</div> <div>2.PRIME</div> <div>3.LIST OF PRIME NUMBERS</div> <div>4.MIN AND MAX IN ARRAY</div> <div>5.FIBBONACCI SERIES</div> <div>6.UNIQUE ELEMENT IN AN ARRAY</div> <div>7.TITLE CASE</div> <div>8.MERGE THE SORTED ARRAY</div> <div>9.NESTED ARRAY</div>	<div> <h2 style="text-align: center;">TITLE CASE</h2> <p>ENTER THE WORDS: <input type="text" value="web tech"/></p> <p style="text-align: center;"><input type="button" value="CLICK"/></p> <p>Title Case Word Is: <input type="text" value="Web Tech"/></p> </div>
--	---

8. Implement a function that takes two sorted arrays and merges them into a single sorted array without using any built-in sorting functions.

```
<html>

<head>

<title>Merge Sorted Array</title>

<link rel="stylesheet" href="front.css">


<script>

function merge()

{

    var arr1=new Array();

    var arr2=new Array();

    // var n=document.getElementById("input").value;

    var temp=0;

    var num1=parseInt(window.prompt("Array1"));

    for(var i=0;i<num1;i++)

    arr1[i]=parseInt(window.prompt("Enter the Array Element for 1st Array"));

    for(var i=0;i<num1;i++)

    {

        for(var j=0;j<num1;j++)

        {

            if(arr1[j]>arr1[j+1])

            {
```

```

        temp=arr1[j];

        arr1[j]=arr1[j+1];

        arr1[j+1]=temp;

    }

}

}

var num2=parseInt(window.prompt("Array 2"));

for(var i=0;i<num2;i++)

    arr2[i]=parseInt(window.prompt("Enter the Array Element for 2nd Array"));

for(var i=0;i<num2;i++)

{

    for(var j=0;j<num2;j++)

    {

        if(arr2[j]>arr2[j+1])

        {

            temp=arr2[j];

            arr2[j]=arr2[j+1];

            arr2[j+1]=temp;

        }

    }

}

var mergearray=new Array();

var temp2=0;

```

```

var i=0;j=0;

while((i<num1) &&(j<num2))

{

    if(arr1[i]<arr2[j])

        mergearray[temp2++]=arr1[i++];

    else

        mergearray[temp2++]=arr2[j++];

}

while(i<num1)

    mergearray[temp2++]=arr1[i++];

while(j<num2)

    mergearray[temp2++]=arr2[j++];

alert(mergearray);

document.getElementById("output").value=mergearray;

}

</script>

</head>

<body>

<div class="bor" align="center" >

    <form>

        <table class="table" border="0" cellpadding="4px" width="500px">

            <caption> <h1>MERGE THE SORTED ARRAYS</h1></caption>

            <tr>

```

```
        <td colspan="2" align="center"> <input type="text" id="input" placeholder="only 2  
array"></td>
```

```
    </tr>
```

```
    <tr>
```

```
        <td colspan="2" align="center"> <input class="button" type="button"  
onclick="merge()" value="Press Here To Input The Array Values">
```

```
    </tr>
```

```
    <tr>
```

```
        <td> <label for="">Merged Sorted Array Is:</label></td>
```

```
        <td> <input type="text" id="output"></td>
```

```
    </tr>
```

```
</table>
```

```
</form>
```

```
</div>
```

```
</body>
```

```
</html>
```

1.PALINDROME
2.PRIME
3.LIST OF PRIME NUMBERS
4.MIN AND MAX IN ARRAY
5.FIBBONACCI SERIES
6.UNIQUE ELEMENT IN AN ARRAY
7.TITLE CASE
8.MERGE THE SORTED ARRAY
9.NESTED ARRAY

MERGE THE SORTED ARRAYS

only 2 array

Press Here To Input The

Merged Sorted Array Is: 12,23,23,45,67,89

9. Implement a function that flattens a nested array in JavaScript, converting it into a single level array.

```
<html>
```

```
  <head>
```

```
    <title>Nested Array</title>
```

```
    <link rel="stylesheet" href="front.css">
```

```
  </head>
```

```
  <body>
```

```
    <div class="bor" align="center" >
```

```
      <form>
```

```
        <table class="table" border="0" cellpadding="4px" width="100%">
```

```
          <caption><h1>NESTED ARRAYS</h1></caption>
```

```

<tr align="center">

    <td><label>ROW SIZE:</label></td>

    <td><input type="text" id="input"></td>

</tr>

<tr >

    <td colspan="2" align="center">

        <input class="button" type="button" onclick="nest()" value="INITIALIZE">

    </td>

</tr>

<tr>

    <td>

        <div align="center" id="result1">

            <H3>TWO DIMENTIONAL ARRAY</H3>

        </div>

    </td>

    <td>

        <div align="center" id="result2">

            <H3>TWO DIMENTIONAL ARRAY</H3>

        </div>

    </td>

```



```

        </tr>

    </table>

</form>

</div>

<script>

    function nest()

    {

        var row_size=document.getElementById("input").value;

        var n;

        var flag=0;

        var arr1=new Array();

        var arr2=new Array();

        for(var i=0;i<row_size;i++)

        {

            arr1[i]=[];

            n=window.prompt("NUMBER OF COLUMN VALUES IN ROW :"+(i));

            for(var j=0;j<n;j++)

                arr1[i].push(window.prompt("ENTER THE VALUEES :"+(j+1)));

        }

        alert("hi");

        for(var i=0;i<row_size;i++)

        {

```

```

        document.getElementById("result1").innerHTML=

            document.getElementById("result1").innerHTML+"[";

        for(var j=0;j<arr1[i].length;j++){

            document.getElementById("result1").innerHTML=

                document.getElementById("result1").innerHTML+arr1[i][j]+"&nbsp;&nbsp; ";

        }

        document.getElementById("result1").innerHTML=

            document.getElementById("result1").innerHTML+"]" + "<br>";

    }

    for(var i=0;i<row_size;i++)

    {

        for(var j=0;j<arr1[i].length;j++)

            arr2[flag++]=arr1[i][j];

    }

    document.getElementById("result2").innerHTML="["+arr2+"]" ;

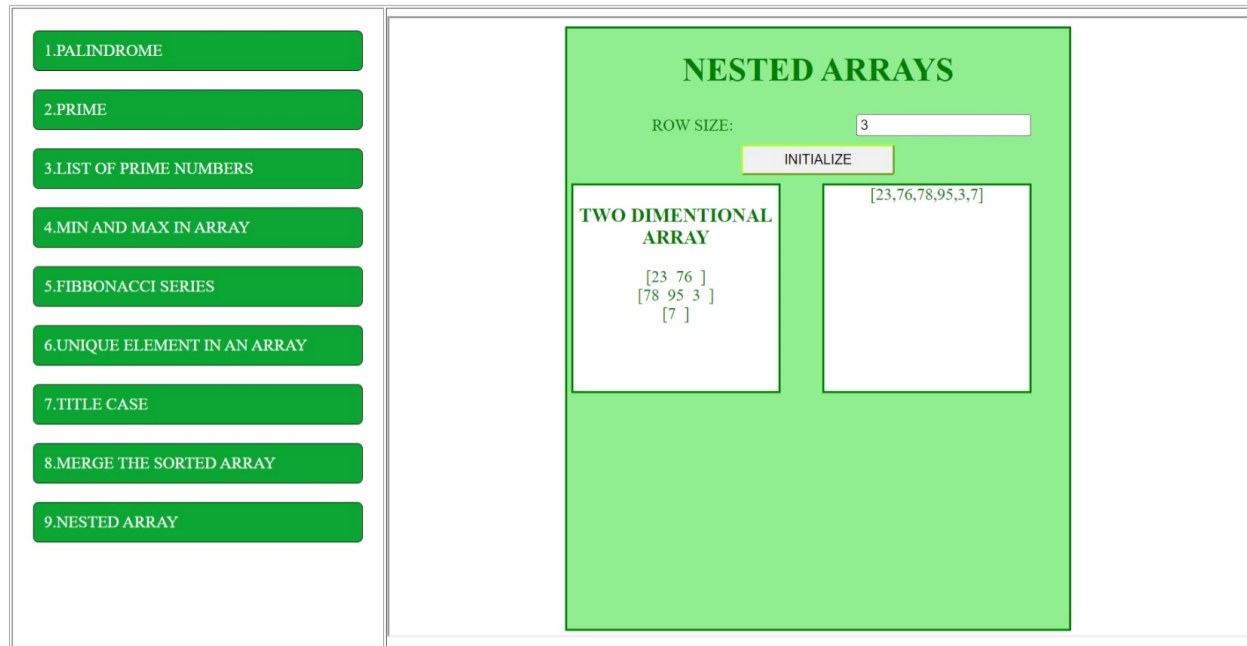
}

</script>

</body>

</html>

```



Css:

.left{

/* border: 2px solid #000000; */

margin-top: 20px;

width: 100%;

height:600px;

}

.left a{

border: 1px solid rgb(10, 22, 10);

padding: 10px 10px 10px 10px;

display: flex;

text-decoration: none;

```
width: 300px;

background-color: rgb(13, 165, 51);

color: white;

border-radius: 5px;
}
```

```
.bor{

border: 2px solid green;

align-items: center;

height: 100%;

width: 60%;

margin-left: 20%;

background-color: lightgreen;

}
```

```
.table{

border-collapse: collapse;

color: green;

}
```

```
.button{

border-color: greenyellow;

width: 150px;

height: 30px;

border-radius: 3px;
```

```
}  
  
#result1{  
    border: 2px solid green;  
    background-color: white;  
    color: green;  
    width: 200px;  
    height: 200px;  
}  
  
#result2{  
    border: 2px solid green;  
    background-color: white;  
    color: green;  
    width: 200px;  
    height: 200px;  
}
```