1. Create a simple form with some functionality that it add record, edit record and delete respective recored by pressing button. data are not send to database. you have need to validate data and perform all operation on client side.

```
<html>
   <head>
      <title>Hello User
      </title>
      <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.0/css/bootstrap.min.cs
s">
      <script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></
script>
      <script
src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.0/js/bootstrap.min.js">
</script>

      <script>
         let x;
         let row;
         let cell1,cell2,cell3,cell4,cell5;
         let nam,code,sal,cty;
         let flag=1;

         function Events()
         {
            let a=[];
            nam=document.getElementById('name').value;
```

```
    code=document.getElementById('ecode').value;
    sal=document.getElementById('sal').value;
    cty=document.getElementById('city').value;

    if(flag)
    {
        addElements();
    }
    else
    {
        let n,c,s,ci;
        n=document.getElementById('name').value;
        c=document.getElementById('ecode').value;
        s=document.getElementById('sal').value;
        ci=document.getElementById('city').value;

        x.parentElement.parentElement.cells[0].innerHTML=n;
        x.parentElement.parentElement.cells[1].innerHTML=c;
        x.parentElement.parentElement.cells[2].innerHTML=s;
        x.parentElement.parentElement.cells[3].innerHTML=ci;
        console.log( x.parentElement.parentElement.cells[0]);
    }
    flag=1;
}
```

```
 function editElements(a)
{
   flag=0;

document.getElementById('name').value=a.parentElement.parentElement.cells[0].innerHTML;

document.getElementById('ecode').value=a.parentElement.parentElement.cells[1].innerHTML;

document.getElementById('sal').value=a.parentElement.parentElement.cells[2].innerHTML;

document.getElementById('city').value=a.parentElement.parentElement.cells[3].innerHTML;
   x=a;
}



function deleteElements(b)
{
   document.getElementById('myTable').deleteRow(1);
}



function addElements()
```

```
        {
            let i=1;
            row=myTable.insertRow(i++);
            cell1=row.insertCell();
            cell2=row.insertCell();
            cell3=row.insertCell();
            cell4=row.insertCell();
            cell5=row.insertCell();
            cell6=row.insertCell();

            cell1.innerHTML=nam;
            cell2.innerHTML=code;
            cell3.innerHTML=sal;
            cell4.innerHTML=cty;
            cell5.innerHTML="<a onclick = \"editElements(this)\" >Edit</a>";
            cell6.innerHTML="<a onclick
=\"deleteElements(this)\">Delete</a>";
            document.getElementById('name').value="";
            document.getElementById('ecode').value="";
            document.getElementById('sal').value="";
            document.getElementById('city').value="";
        }

    </script>

    <style>
    table,tr,th{
```

```
            padding: 20px;
        }
        </style>



    </head>
    <body>
        <div class="container-fluid">
            <div class="row">
                <div class="col-md-6" style="background-color:rgb(87, 129,
83);">
            <h2>Cloud Analogy</h2>
            <form action="#">
              <div class="form-group">
                <label for="name">Full Name:</label>
                <input type="text" class="form-control" id="name"
placeholder="Enter name here" name="name" required />
              </div>
              <div class="form-group">
                <label for="ecode">EMP Code:</label>
                <input type="text" class="form-control" id="ecode"
placeholder="Enter EMP code" name="ecode" required />
              </div>
              <div class="form-group">
                <label for="sal">Salary:</label>
                <input type="text" class="form-control" id="sal"
placeholder="Enter salary here" name="sal" required/>
              </div>
```

```
            <div class="form-group">
              <label for="city">City:</label>
              <input type="text" class="form-control" id="city"
placeholder="Enter city here" name="city" required/>
            </div>
            <button type="button" class="btn btn-default" id="submit"
onclick="Events()">Submit</button>
          </form>
        </div>
        <div class="col-md-6" style="background-color:rgb(180, 166, 169);
padding: 20px;">
            <p id="test"></p>
            <table id="myTable">
               <tr>
                 <th>
                   Name:
                 </th>
                 <th>
                    EMP Code:
                 </th>
                 <th>
                    Salary:
                 </th>
                 <th>
                    City:
                 </th>
               </tr>
```

```
            </table>
          </div>
          </div>
          </div>

        </body>
</html>
```

2. Write a JavaScript program to calculate the sum n + n/2 + n/4 + n/8 + ... where n is a positive integer and all divisions are integer.

```
function Fun(num){
  let sum=0;
 for(let i=0;i<num;i++){
          sum=Math.floor(sum+(num/Math.floor(2,i)));
 }
  console.log(sum);
}
Fun(5);
```

3. Write a JavaScript program to display the current day and time.

```
<html>
    <head>
        <script>
        function Date_Time(d){

            let menu={
                0:"Sunday",
```

```
    1:"Monday",
    2:"Tuesday",
    3:"Wednessday",
    4:"Thruesday",
    5:"Friday",
    6:"Saterday"
};
document.write(menu);
let dd = new Date(d);
    //document.getElementById("demo").innerHTML = d.getDay();
let day=dd.getDay();
// document.write(day);
switch(day){
    case 0:
        document.write("Today is:"+menu[day]);
        break;
    case 1:
        document.write("Today is:"+menu[day]);
        break;
    case 2:
        document.write("Today is:"+menu[day]);
        break;
    case 3:
        document.write("Today is:"+menu[day]);
        break;
    case 4:
```

```
                document.write("Today is:"+menu[day]);
                break;
            case 5:
                document.write("Today is"+menu[day]);
                break;
            case 6:
                document.write("Today is"+menu[day]);
                break;
            default:
                document.write("Invalid inpur");
        }
       let  h=dd.getHours();
        let   m = dd.getMinutes();
        let s=dd.getSeconds();
        document.write( (h>12)? h +"PM"+":"+ m + ":" + s:
h+"AM"+":"+m+":"+s);
    }
    Date_Time("2011-04-20")
    </script>
  </head>
</html>
```

4. Write a function which convert the number to word and word to number.

Digit 0 is replaced with 'a',1 is replaced with 'b' and so on,with digit 9 replaced by 'j'.

```
<html>
  <head>
```

```
<script>
function wordString(str){
    let word=str.charCodeAt(str.length-1);
    console.log(word);
    let collection={
        0:a,1:b,2:c,4:d,5:e,6:f,7:g,8:h,9:i,10:j
    };
    for(let i=0;i<word.length;i++){
    switch(word){
                case '0' :
                        b[i] ='a';
                         break;

                case '1' :
                         b[i] ='b'; break;
                case '2' :
                        b[i] ='c'; break;

                case '3' :
                         b[i] ='d'; break;

                case '4' :
                         b[i] ='e'; break;

                case '5' :
                         b[i] ='f'; break;
```

```
case '6' :
        b[i] ='g'; break;

case '7' :
        b[i] ='h'; break;

case '8' :
         b[i] ='i'; break;

case '9' :
        b[i] ='j'; break;

case '' :
        b[i] =''; break;

case 'a' :
         b[i] ='0';
         break;

case 'b' :
        b[i] ='1'; break;
case 'c' :
        b[i] ='2'; break;

case 'd' :
```

```
                b[i] ='3'; break;

            case 'e' :
                b[i] ='4'; break;

            case 'f' :
                b[i] ='5'; break;

            case 'g' :
                 b[i] ='6'; break;

            case 'h' :
                b[i] ='7'; break;

            case 'i' :
                b[i] ='8'; break;

            case 'j' :
                  b[i] ='9'; break;
            case '' :
                b[i] =''; break;
    }
}
```

```
        }
        wordString("vikash10021")
        </script>
    </head>
</html>
```

1. Write a JavaScript program to check if a point lies strictly inside a given circle. Go to the editor.

```
<html>
    <head>
        <title>
            Circle Test
        </title>
        <script>
        function Fuc(a,b,r,p1,p2){
          //  document.write("vikash kumar");
            let d=(Math.pow(p1-a,2)+Math.pow(p2-b,2))
            //let d=((p1-a)**2+(p2-b)**2);
            document.write(d);
            if(d==Math.pow(r,2)){
                document.write("Point are the on the circle");
            }
            if(d>Math.pow(r,2)){
                document.write("Point are the outside the circle");
            }
            if(d<Math.pow(r,2)){
                document.write("point are inside the circle");
```

```
        }
      }
      Fuc(0,0,5,2,2);
      </script>
   </head>
</html>
```

2. Create a method, pass the date and return the day in this format: ‘MO’, ‘TU’, ‘WE’, ‘TH’, ‘FR’, ‘SA’, ‘SU’.

```
<html>
   <head>
      <script>
         function display()
         {
         let a=["SU","MO","TU","WE","TH","FR","SA"];
         let x=document.getElementById("btn").value;
         let d=new Date(x);
         document.write(a[d.getDay()]);
         }
         </script>
   </head>
   <body>
      <input type="date" id="btn">
      <button onclick="display()">click me</button>
   </body>
</html>
```

1. Write a function sortRange(arr, a, b) that gets an array arr, looks for elements between a and b in it and returns an array of them.

```
function fun(arr,a,b)
{
  let temp=[];
  for(let i=0;i<arr.length;i++)
    {
      if(arr[i]>=a && arr[i]<=b)
        {
          temp[i]=arr[i];
        }
    }
  console.log(temp);
}
let menu=[2,3,4,5,6,7];
fun(menu,2,5);
```

2. Create a calculator.

```
let calc = new Calculator;
alert( calculate("2 + 8") ); // 10
```

Implement same as add operator for multiplication *, division / and power **.

```
<!DOCTYPE html>
<html>
<head>
<title>Calculator</title>
<script type="text/javascript">
function fun(t) {
// body...
let value=parseInt(prompt("Enter First Value"));
let value2=parseInt(prompt("Enter second values:"));
let choise=parseInt(prompt("Enter your choise:"));
switch(choise){

case 1:{
document.write(value+value2);
break;
}
case 2:{
```

```
document.write(value-value2);

break;

}

case 3:{

document.write(value*value2);

break;

}

case 4:{

document.write(value/value2);

break;

}

case 5:{

document.write(Math.pow(value,value2));

break;

}


}
```

```
}

fun();



</script>

</head>

<body>


</body>

</html>
```

3. Write a JavaScript program to rotate the elements left of a given array of integers of length 3.

```
<!DOCTYPE html>

<html>

<head>


<title>Reverse of array:</title>



<script type="text/javascript">



function ReverseArray() {


// body...


let arr=[1,2,3];
```

```
//document.write(typeof(arr));

for(let i=arr.length-1;i>=0;i--)

document.write(arr[i]);

}
ReverseArray();



</script>



</head>
<body>


</body>
</html>
```

4. An instrument store gives a 10% discount to all students off the original cost of an instrument. During a back to school sale an additional 15% is taken off the discounted price. Julie, a student at the local high school, purchases a flute for $306. How much did it originally cost?

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

<title>Calculation</title>
```

```
<script type="text/javascript">


function Purchases() {

// body...

let pamount=parseInt(prompt("Enter purchases amount:"));

let sdis=100*pamount/85;

let edis=10*sdis/9;

document.write("Actual amount:"+edis);

}
Purchases();




</script>


</head>
<body>


</body>
</html>
```

5. Verify a prime number?

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

<title>Prime</title>


<script type="text/javascript">


function Prime() {

// body...

let num=parseInt(prompt("Enter a number:"));

let prime=1;

for(let i=2;i<num/2;i++)

{

if(num%i==0)

prime=0;

}

if(prime==1)
```

```
document.write("prime no");

else

document.write("not prime no");
}
Prime();



</script>

</head>
<body>

</body>
</html>
```

6. Find all prime factors of a number?

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

<title>Prime Factor</title>


<script type="text/javascript">
```

```
function fun() {

// body...

let num=parseInt(prompt("Enter number:"));

let temp=[];


//document.write(num);

for(i=2;i<num/2;i++){

if(num%i==0){


for(var j=2;j<=i/2;j++){


if(i%j==0){



let prime=false;

}

else{
```

```
prime=true;

}

}

if(prime==true){


num=num/i;

temp.push(i);

}

}

}


for(let k=0;k<temp.length;k++){

document.write("this is prime factor:"+temp[k]);

}


}


fun();
```

```
</script>

</head>
<body>

</body>
</html>
```

7. Get nth Fibonacci number?

```
<!DOCTYPE html>
<html>
<head>
<title>Fibonacci series</title>


<script type="text/javascript">


function fibo(n) {

// body...

//document.write(typeof(n));
```

```
let arr=[0,1];

for(let i=2;i<n+1;i++){

arr.push(arr[i-2]+arr[i-1]);

}

document.write(arr);


}
fibo(20);
</script>
</head>
<body>
</body>
</html>
```

1. Find the total no of zero from 1-n?

```
function Fun(num){
  let count=0;
  let j=0;
  for(let i=1;i<=num;i++){
    j=i;
    while(j!=0){
```

```
if(j%10==0)

count++;

j/=10;
    }
  }
  console.log(count);
}
Fun(100);
```

2. find the largest sum of any two no of and element in an array.

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

<title>Find Maximum</title>

<script type="text/javascript">

function Fun(arr){

let temp=[];

for(let i=0;i<arr.length;i++){
```

```
temp.push(arr[i]+arr[i+1]);

}

console.log(...temp);

temp.pop();

console.log(Math.max(...temp));


  }
Fun([12,34,56,12,45,7]);

</script>
</head>
<body>


</body>
</html>
```

3. WAP to generate random no between 5-7?

```
function fun(max,min,range){
  let num=0;
  for(let i=0;i<range;i++){
```

```
    num = (Math.random() %
          (max - min + 1)) + min;
  }
  console.log(num);
}
fun(7,5,2);
```

4. WAP to check whether any twono in an array sum of given no?

```
function fun(arr,sum){
  console.log(arr+ " "+sum);
  for(let i=0;i<arr.length;i++){


for(let j=1;j<=arr.length;j++){

    if(sum==arr[i]+arr[j]){
      console.log(`sum of ${arr[i]} and ${arr[j]}:=${sum}`);
    }
  }
    }
  }
fun([12,43,56,78,5,34],17);
```

6. WAP to verify a string is palindrome or not?

```
function fun(str){

  let temp=str;
  let t=str.reverse();
  if(temp==t)

console.log("palindrome");
  else
    console.log("string is not palindrome");
}
fun("rraarr");
```

5. WAP to Remove duplicate charactor in string.

```
function fun(str){
  for(let i=0;i<str.length;i++){
    for(let j=0;j<str.length;j++){

      if(str[i]==str[j]){
       str=str.splice(str[j],1);
      }
    }
  }
```

```
  console.log(str);
}
fun("aarddf");
```

6. find the first non repeating charactor in string.

```
function fun(str){

  for(let i=0;i<str.length;i++){

    let temp=str.charAt(i);
    if(str.indexOf(temp)== str.lastIndexOf(temp)){
     console.log(temp);
    }
  }
}
fun("aavvk");
```

7. WAP to reverse word in sentence.

```
function Fun(str){

let temp=str.split(" ");
  let hey=[];
  for(let i=temp.length-1;i>=0;i--){
```

```
    hey.push(temp[i]);
  }
  console.log(hey);
}
Fun("i love my india");
```

8. WAP to reverse words in place?

```
<html>
    <head>
        <script>
        function Fun(str){
            let x="";
                let temp=str.split(' ');
              // let y=temp.split('');
              for(let i=0;i<temp.length;i++){
                  x=temp[i].split('');
                  document.write(' ');
                  document.write(x.reverse().join(''));
              }
        }
        Fun("i love you nidhi");
        </script>
    </head>
```

```
</html>
```

9. WAP to find the missing element in an array of integer.

```
function fun(arr){

arr.sort((a,b)=>{return a-b;});
  let min=Math.min(...arr);
  let max=Math.max(...arr);
  let res=[];

  for(let i=min+1;i<max;i++){
    console.log(i);
    let hey=0;
    for(let j=0;i<arr.length;j++){
      if(arr[j]!=i){
        res.push(i);
      }
    }
  }
console.log(res);

}
fun([1,52,64,36,98]);
```

10. WAP to reverse string.

```
function fun(str){

  for(let i=str.length;i>=0;i--){
    console.log(str[i]);
  }
}
fun("i love you nidhi");
```

11. function to find out the domain name in an email address. by using slice() and lastIndexof method.

```
function fun(str){console.log(str.slice(str.lastIndexOf("@")
+1));}fun("vikash.k@cloudanalogy.com");
```

12. find the longest string in set of Strings.The longest string should be store in an new array of string.

```
function fun(str){

  let temp="";
  let arr=[];
  for(let i=0;i<str.length;i++){
    temp=str[i].split(");
    arr.push(temp.length);
```

```
  }
  let max=Math.max(...arr);
  console.log(str[arr.indexOf(max)]);



}
fun(["yashri","nidhi","archana","deepshikha","neha"]);
```

13. a team lead start some codelanguage for traning.

it assign some value to one alphabets like A=0,B=1.

findout the the pair which give total sum of provided number

```
function Fun(arr){

  let temp=[];
  for(let i=0;i<26;i++){temp.push(String.fromCharCode(97+i));}
  let char=temp.indexOf(arr);

  let j=0,result=[""];

  for(let i=0;i<=char && j<char;i++){

    if(i+j==char){
```

```
      result.push(i+ "+" +j);
      j++;
      i=j;

      if(j==char/2){

        result.push(i+ "+" +j);
      }
    }
  }
  console.log(result);
}
Fun('g');
```

14. Convert string- take two string and check wheather the second strings word is exist in 1st string in incresing order if yes return true else return false.

```
function fun(string,word){
  let j=0;
  for(let i=0;i<string.length && j<word.length;i++){
```

```
    if(string[i]==word[j]){

      j++;
    }

  }
  if(j==word.length){
    console.log(true);
  }
  else
    console.log(false);
}
fun("sdnfkdnfkjkdsfn","fkdnfdfdf");
```

15. Given a sorted integer array that does not contain any duplicates,
    return a summary of the number ranges it contains.

```
function Fun(num){

  let first=0,update, result=[],fRes=[''];

  let numF=num.sort((a,b)=>{return a-b});
 // console.log(numF);
```

```
  for(let i=0;i<numF.length;i++){

    if(numF[i]!=numF[i+1]-1){

      result.push(numF[first]);
      result.push(numF[i]);
      first=i+1;

    }
  }
  for(let j=0;j<result.length;j+=2){

    fRes.push(result[j]+ "->" +result[j+1]);
   // console.log(fRes);
  }
  console.log(`<br>${fRes}`);
}
Fun([-1,0,1,2,6,9,7]);
```

16. Write the code to paint all diagonal table cells in red.

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

```
<title>Print Diagonal</title>


</head>
<body>

 <table border=1 id='tableid'>
          <tr>
             <td>
                hi
             </td>
             <td>
                hi
             </td>
             <td>
                hi
             </td>
             <td>
                hi
             </td>
             <td>hi
             </td>
          </tr>
          <tr>
                <td>
                   hi
```

```
    </td>
    <td>
      hi
    </td>
    <td>
      hi
    </td>
    <td>
      hi
    </td>
    <td>hi
    </td>
</tr>
<tr>
      <td>
        hi
      </td>
      <td>
        hi
      </td>
      <td>
        hi
      </td>
      <td>
        hi
```

```
    </td>
    <td>hi
    </td>
</tr>
<tr>
        <td>
            hi
        </td>
        <td>
            hi
        </td>
        <td>
            hi
        </td>
        <td>
            hi
        </td>
        <td>hi
        </td>
    </tr>
    <tr>
            <td>
                hi
            </td>
            <td>
```

```
                    hi
                </td>
                <td>
                    hi
                </td>
                <td>
                    hi
                </td>
                <td>hi
                </td>
            </tr>
    </table>

    <script type="text/javascript">


        let table=document.getElementById('tableid');
        for(let i=0;i<table.rows.length;i++){

            let row = table.rows[i];
             row.cells[i].style.backgroundColor = 'red';
        }
        console.log(table);

</script>
```

```
</body>

</html>
```

1. Merge tow sorted array?

```
let arr=[40,20,31,36,10,40,2];
let arr2=[20,78,31,2,5,10,91,45];

let sorted=arr.sort(function(a,b){return(a-b);});
let sorted2=arr2.sort(function(a,b){return(a-b);});
let children = sorted.concat(sorted2);
console.log(children);
```

2. Remove duplicate element in an array?

```
<!DOCTYPE html>
<html>
<head>
	<title>Hello aliens</title>
	<script type="text/javascript">

		let size=parseInt(prompt("Enter the size of an array:"));
		let arr=[];
		for(i=0;i<size;i++){
			arr[i]=parseInt(prompt("Enter element in an array"));
		}

		function remove(arr) {
			// body...
			arr.sort();

		for(i=0;i<size;){


			if(arr[i-1]==arr[i]){

				arr.splice(i,1);
			}
			else{
				i++;
			}
		}document.write(arr);
		}
```

```
        remove(arr);

        </script>
</head>
<body>
<h1>Hey aliens, may,this is wonderful day</h1>
</body>
</html>
```

3. Swap two no withoud using temp variable.

```
function swap(a,b){
  a=a+b;
  b=a-b;
  a=a-b;
  console.log("a="+a+"b="+b);
}
swap(10,20);
```

4. Reverse a string in javascript?

```
<!DOCTYPE html>
<html>
<head>
        <title>ReverseString</title>

<script type="text/javascript">

function ReverseStr(arr) {
        // body...
        for(let i=arr.length;i>=0;i--){
                //document.write(arr[i]);
                console.log(arr[i]);
        }
}

ReverseStr("vikash");
</script>
</head>
<body>

</body>
</html>
```

5. Given an array of numbers.
On every next move you are allowed to increase exactly one of its item of array by

one. ""Ex 1: [1, 2, 4] , output will be 0

```
function fun(arr){

  arr.sort();
  let d=1;
  for(let i=0;i<arr.length;i++){
    if(arr[i]>arr[i+1]){

     d=arr[i]-arr[i+1]+1;
      arr[i+1]=arr[i+1]+d;
    }
    if(arr[i]==arr[i+1]){
      d++;
    }
  }
  console.log(d);
}
fun([1,9,1]);
```

6. Write a method that labels of domain as 'Bussiness','Company','CallingService','Technology' for .com,.org,.net or .info respectively.

```
function Fun(str){

  let br=[];
  br=str.split(".");
  let size=br.length;
  //console.log(br);
 // console.log(br[size-1]);
  if(br[size-1]=="com"){
    console.log("company");
  }
  if(br[size-1]=="org"){console.log("Organization");}
  if(br[size-1]=="edu"){console.log("Edication");}
  if(br[size-1]=="info"){console.log("Technical");}
}
Fun("google.org");
```

7. A print company wants a method to calculate last number prints by printer if you pass the current number and number of digit for print.

```
function fun(a,b){
```

```
  let arr=[];
  for(let i=1;i<=b;i++){

    if(a>a+1){i=i+1;}
    arr.push(a);
    a=a+1;
  }
  console.log(a);
}
fun(12,3);
```

1. Merge tow sorted array?

```
let arr=[40,20,31,36,10,40,2];
let arr2=[20,78,31,2,5,10,91,45];

let sorted=arr.sort(function(a,b){return(a-b);});
let sorted2=arr2.sort(function(a,b){return(a-b);});
let children = sorted.concat(sorted2);
console.log(children);
```

2. Remove duplicate element in an array?

```
<!DOCTYPE html>
<html>
<head>
	<title>Hello aliens</title>
	<script type="text/javascript">

		let size=parseInt(prompt("Enter the size of an array:"));
		let arr=[];
		for(i=0;i<size;i++){
			arr[i]=parseInt(prompt("Enter element in an array"));
		}

		function remove(arr) {
			// body...
			arr.sort();

		for(i=0;i<size;){


			if(arr[i-1]==arr[i]){

				arr.splice(i,1);
			}
```

```
                else{
                        i++;
                }
        }document.write(arr);
        }

    remove(arr);

    </script>
</head>
<body>
<h1>Hey aliens, may,this is wonderful day</h1>
</body>
</html>
```

3. Swap two no withoud using temp variable.

```
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        console.log(arr[i]);
    }
}

ReverseStr("vikash");
</script>
</head>
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     d=arr[i]-arr[i+1]+1;
      arr[i+1]=arr[i+1]+d;
    }
    if(arr[i]==arr[i+1]){
      d++;
    }
  }
  console.log(d);
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function fun(a,b){

  let arr=[];
  for(let i=1;i<=b;i++){

    if(a>a+1){i=i+1;}
    arr.push(a);
    a=a+1;
  }
  console.log(a);
}
fun(12,3);
```

8. Find the greatest common divisor of two numbers?

```
function fun(a,b){

  if(a==0)
    console.log(b);
  if(b==0)
    console.log(a);
  if(a==b)
    console.log(a);
  if(a>b){
    console.log(fun(a-b,b));
  }
  console.log(fun(a,b-a));

        }

        fun(4,6);
```

9. "Ravi got wooden block of different sizes as a present from cloud analogy for his anniversary,each wooden block having an non negative integer size.Since he likes to make things perfect, he wants to arrange them from smallest to large so that each wooden block will be bigger than the previous one exactly by 1.He may need some additional statues to be able to accomplish that.Help him figure out the minimum number of additional statues needed.

```
let arr=[5,6,10,12];
let size=arr.length;
let loc=1;
let max=arr[0];
let min=arr[0];
for(let i=0;i<size;i++){
  if(arr[i]>max){
```

```
    max=arr[i];
    loc=i+1;
  }
}
for(let j=0;j<size;j++){
  if(arr[j]<min){
    min=arr[j];
    loc=j+1;
  }
}
let dif=max-min;
let res=dif-size+1;
console.log(res);
```

10. You have two number array, m and n and k number you want for create.Determine whether there is a pair of numbers, where one number is taken from m and another from n ,that can be added together to get a sum of k.Return true if such a pair exists,otherwise return false.

```
function Fun(arr,arr1,k){
  let count=0;
  for(let i=0;i<arr.length;i++){
    for(let j=0;j<arr1.length;j++){
      if(arr[i]+arr1[j]==k){
        count++;
      }
    }
  }
  if(count>0){
    console.log(true);
  }
  else
    console.log(false);

}
Fun([12,25,36,1],[4,2,31,45],16);
```

11. Give a two number array and check both are similar or not. Return true/false.

```
function Fun(arr,arr1){
  let temp=1;
  arr.sort();
  arr1.sort();
  if(arr.length!=arr1.length){
    console.log(false);}
  else{
```

```
      for(let i=0;i<arr.length;i++){
        if(arr[i]!=arr1[i]){
          temp=0;
          break;
        }
      }
      if(temp){
        console.log(true);
      }
      else
        console.log(false);
    }

  }
Fun([1,2,3],[1,2,3]);
```

12. "Check the given string can be obtained by one concatenation of some string to itself.

```
<html>
   <head>
      <title>Count same length</title>
      <script>
      function Fun(str){


         if(str.length%2==0)
         {
            let temp=Math.floor(str.length/2);
            for(let i=0;i<temp;i++)
             {
                  if(str.charAt(i)==str.charAt(i+temp))
                  {
                     temp=0;
                  }
                  else{
                     temp=1;
                     break;
                  }
               }
            if(temp==1)
            {
                document.write("not match!!")
             }
            else
            {
               document.write("match!!")
             }
         }
```

```
        else{document.write("not match!!!");}
    }
    Fun("vikashvikash");

    </script>

  </head>
</html>
```

13. n number of cat and person in a house.Create a method which return an array containing every possible number of people and cat.

```
function Fun(num){
  let res=Math.floor(num/4);
  let res2=Math.floor(num/2);
  console.log("No of man="+res2);
  console.log("No of cat=:"+res);
}
Fun(12);
```

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                        arr[i]=parseInt(prompt("Enter element in an array"));
                }

                function remove(arr) {
```

```
                    // body...
                    arr.sort();

                for(i=0;i<size;){


                    if(arr[i-1]==arr[i]){

                        arr.splice(i,1);
                    }
                    else{
                        i++;
                    }
                }document.write(arr);
                }

        remove(arr);

        </script>
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```

```
   console.log("company");
  }
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```
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    if(a>a+1){i=i+1;}
    arr.push(a);
    a=a+1;
  }
  console.log(a);
}
fun(12,3);
```