Web Lab Assignment

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Sec:- B

HTML Exercises

1. Create your Class Timetable using HTML Tables. Use proper Cell Padding, Cell Spacing, Row and Column Span.

Code:-

Html file:-

```
<!DOCTYPE html>

<html lang="en">

<head>

   <meta charset="UTF-8">

   <meta http-equiv="X-UA-Compatible" content="IE=edge">

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

   <title>TimeTable</title>

   <style>

       body{

           margin-top: 80px;

           background-color: lightgray;

       }

       table,th,td{

           border: 1px solid black;
```

```
            border-collapse: collapse;
        }
        tr,td,th{

            padding: 5px;
        }
        h1{
            margin-left: 400px;
            color:blue
        }
        h2{
            margin-left:600px;
            color:blue;
        }
        .body-div{
            margin:auto;
        }
    </style>
</head>
<body>
    <div>
        <h1 class="header-class">Dept of Information Science Time
Table</h1>
        <h2>Section-A</h2>
```

```
        <table class="body-div">

            <tr>

                <th>Day/<br>Time</th>

                <th>8:45 to<br>9:45</th>

                <th>9:55 to<br>10:55</th>

                <th>10:55 to<br>11:55</th>

                <th>11:55 to<br>12:55</th>

                <th>12:55 to<br>1:30</th>

                <th>1:30 to<br>2:30</th>

                <th>2:30 to<br>3:30</th>

            </tr>

            <tr>

                <td>Mon</td>

                <td>PE</td>

                <td>DM</td>

                <td>CNS</td>

                <td>SE</td>

                <td
rowspan="6"><h3>L</h3><br><h3>U</h3><br><h3>N</h3><br><h3>C</h3><br><h3>H<
/h3></td>

                <td colspan="2">LAB(BD(A1)/WT(A2)/NP(A3))</td>

            </tr>

            <tr>

                <td>Tue</td>
```

```
            <td>BT(T)</td>
            <td>DM</td>
            <td>PE</td>
            <td>SE</td>
            <td colspan="2">LAB(BD(A2)/WT(A3)/NP(A1))</td>
        </tr>
    <tr>
        <td>Wed</td>
        <td colspan="2">LAB(BD(A3)/WT(A1)/NP(A2))</td>
        <td>DM</td>
        <td>PE</td>
        <td colspan="2">Unisys/<br>Student Club</td>
    </tr>
    <tr>
        <td>Thu</td>
        <td>WEB(T)</td>
        <td>SE</td>
        <td>CNS</td>
        <td>DM</td>
        <td></td>
        <td>CNS</td>
    </tr>
    <tr>
```

```
            <td>Fri</td>

            <td>CNS</td>

            <td>DM</td>

            <td>PE</td>

            <td>SE</td>

            <td>WEB(T)</td>

            <td></td>

        </tr>

        <tr>

            <td>Sat</td>

            <td colspan="4">FINAL YEAR PROJECT </td>

            <td></td>

            <td></td>

        </tr>

    </table>

</div>

</body>

</html>
```

Output:-

Dept of Information Science Time Table

Section-A

Day/ Time	8:45 to 9:45	9:55 to 10:55	10:55 to 11:55	11:55 to 12:55	12:55 to 1:30	1:30 to 2:30	2:30 to 3:30
Mon	PE	DM	CNS	SE	L	LAB(BD(A1)/WT(A2)/NP(A3))	
Tue	BT(T)	DM	PE	SE	U	LAB(BD(A2)/WT(A3)/NP(A1))	
Wed	LAB(BD(A3)/WT(A1)/NP(A2))		DM	PE	N	Unisys/ Student Club	
Thu	WEB(T)	SE	CNS	DM			CNS
Fri	CNS	DM	PE	SE	C	WEB(T)	
Sat	FINAL YEAR PROJECT				H		

2. Create a Simple Registration for using HTML forms.

Code:-

Html file

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta http-equiv="X-UA-Compatible" content="IE=edge">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <link rel="stylesheet" href="form.css">
   <title>Form</title>
</head>
<body>
   <form class="form-class">
       <h3 id="heading">ISE Club</h3>
       <div class="form-details">
```

```
        <label class="contact_label">Member Name</label>
        <input type="text">
      </div>
      <div class="form-details">
        <label class="contact_label">Designation</label>
        <input type="text">
      </div>
      <div class="form-details">
        <label class="contact_label">Gender</label>
        <select>
            <option value="Male">Male</option>
            <option value="Female">Female</option>
            <option value="Others">Others</option>
        </select>
      </div>
      <div class="form-details">
        <label class="contact_label">Date Of Birth</label>
        <input type="date">
      </div>
      <div class="form-details">
        <label class="contact_label" for="">Phone#</label>
        <input type="text">
      </div>
      <div class="form-details">
        <label class="contact_label">Address</label>
        <input type="text">
      </div>
      <div class="form-details">
        <label class="contact_label">Email</label>
        <input type="email">
      </div>
      <div class="submit_btn">
        <button type="submit" class="submit">Submit</button>
      </div>
    </form>

</body>
</html>
```

CSS FIle:-

```css
.form-class {
   padding: 0 150px;
}
.form-details{

       display: grid;
       grid-template-columns: 58% 42%;
       width: 300px;
       margin: 20px auto;
       margin-top: 15px;

}
.submit{
   margin-left: 100px;
   margin-top: 20px;
}
#heading{
   margin-left: 110px;
}
```

Output:-

-

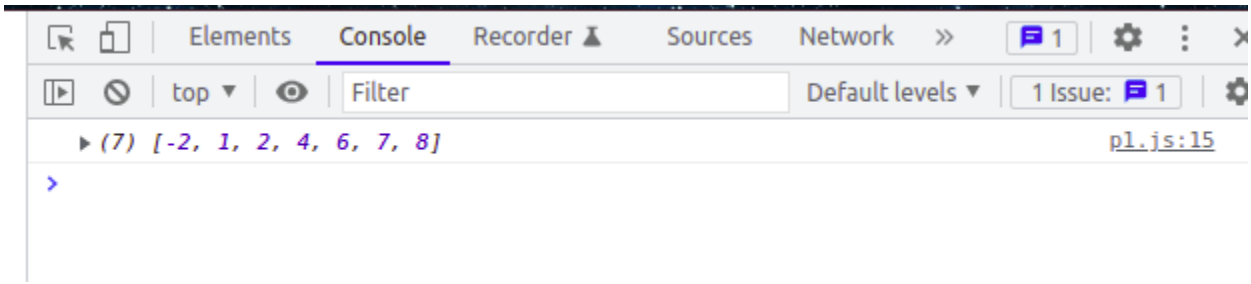
1. Write a JavaScript program to sort the items of an array.

***Sample array*: var arr1 = [4, 6, 7, 8, 2, 1, -2];**
***Sample Output*: -2, 1, 2, 4, 6, 7, 8**

Code:-

```
let a=[4, 6, 7, 8, 2, 1, -2];
for(i=0;i<a.length;i++)
{
        for(j=i+1;j<a.length;j++)
        {
            if(a[i]>a[j])
            {
                let t=a[i];
                a[i]=a[j];
                a[j]=t;
            }
        }
}
console.log(a);
```

Output:-



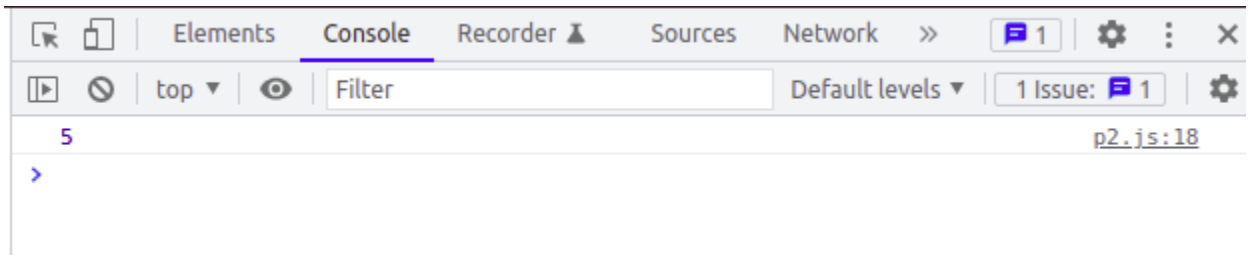
2. Write a JavaScript program to find the most frequent item of an array
***Sample array*: var arr1= [1, 'a', 'a', 2, 3, 'a', 3, 'a', 2, 4, 9, 'a'];**
***Sample Output*: a (5 times)**

Code:-

```
let arr= [1, 'a', 'a', 2, 3, 'a', 3, 'a', 2, 4, 9,'a'];
let m=0,v;
   for(i=0;i<arr.length;i++)
```

```
    {
        let x=arr[i];
        c=0;
        for(j=0;j<arr.length;j++)
        {
            if(x===arr[j])
                c++;
        }
        if(c>m)
        {
            m=c;
            v=x;
        }
    }
console.log(m);
```

Output:-



3. Write a JavaScript program that compares two arrays and returns true if they are identical.

Code:-

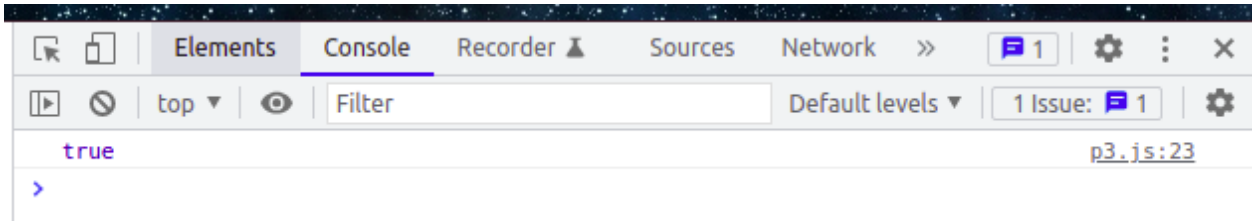
```
function com(a,b){
    if(a.length==b.length)
    {
        for(i=0;i<a.length;i++)
        {
            if(a[i]===b[i])
            {
                return true;
            }
            else
```

```
            {
                return false;
            }
        }
    }
    else
        return false;

}

let a=[4, 6, 7, 8, 2, 1, -2];
let b=[4, 6, 7, 8, 2, 1, -2];
console.log(com(a,b));
```

Output:-



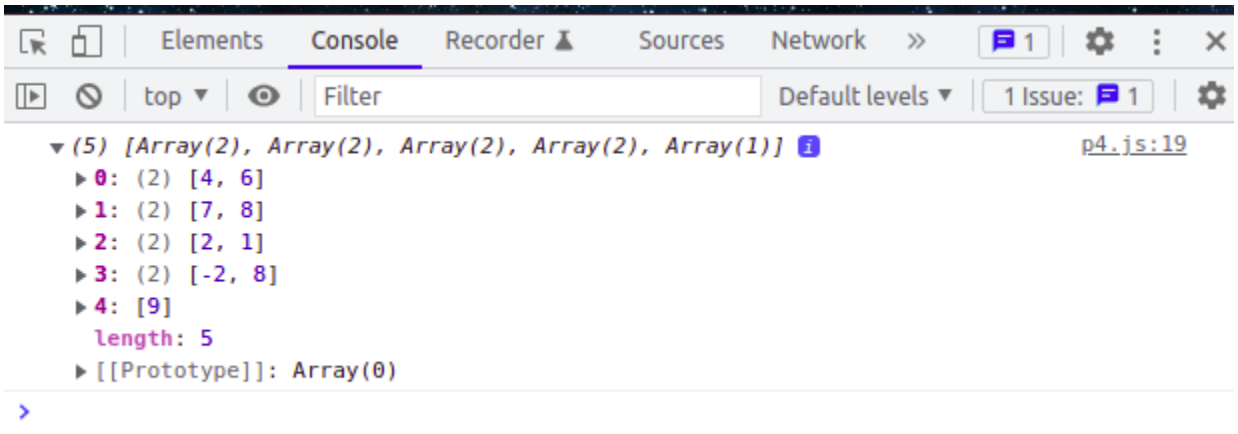
4. Write a JavaScript method that splits an array into parts of determined size.

Code:-

```
function splits(arr,size){
    let newarr=[];
    let s=(arr.length/size)+1;
    for(let i=0;i<s-1;i++)
    {
        newarr[i]=[];
    }
    let cnt=0,z=0;
    for(let i=0;i<arr.length;i++)
    {
        newarr[z][cnt]=arr[i];
        cnt++;
        if(cnt===size)
```

```
        {
            cnt=0;
            z++;
        }
    }
    console.log(newarr);
}
let arr1=[4, 6, 7, 8, 2, 1,-2,8,9];
splits(arr1,2);
```

Output:-



5. Write a JavaScript method that returns a duplicate-free array.

Code:-

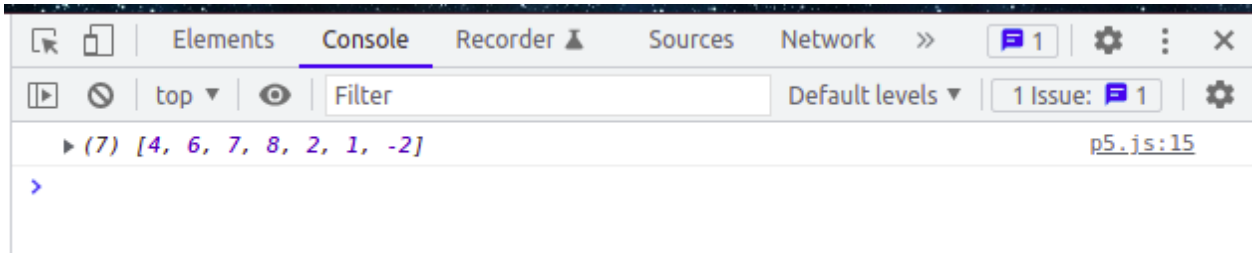
```
function f(arr){
  let temp=[];

  let j = 0;
  let n=arr.length;
  for (i=0; i<n-1; i++)
   {
       if (arr[i] != arr[i+1])
           temp[j++] = arr[i];

   }
   temp[j++] = arr[n-1];
```

```
    for (i=0; i<n; i++)
        arr[i] = temp[i];
    console.log(temp);
}
let arr=[4,4,6,6, 7, 8, 2, 1, -2];
f(arr);
```

Output:-



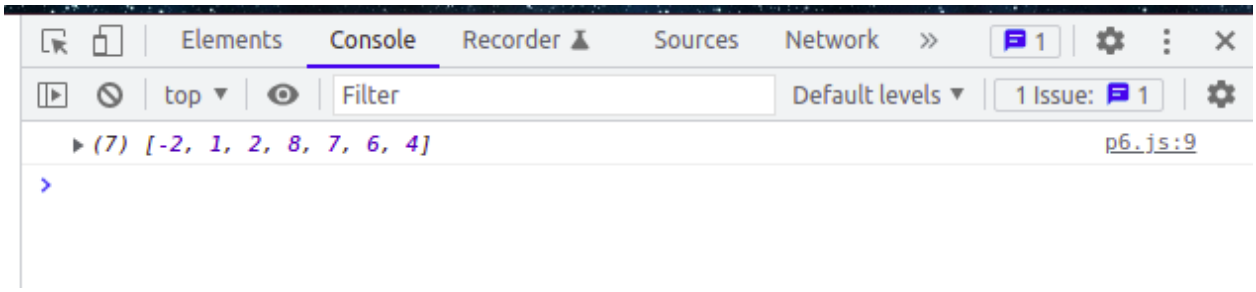
6. Write a JavaScript method that reverts the input array.

Code:-

```
function fun(a){
    let t=[];
    let j=0;
    for(i=a.length-1;i>=0;i--)
    {
        t[j]=a[i];
        j++;
    }
    console.log(t);
}

let a=[4, 6, 7, 8, 2, 1, -2];
fun(a);
```

Output:-

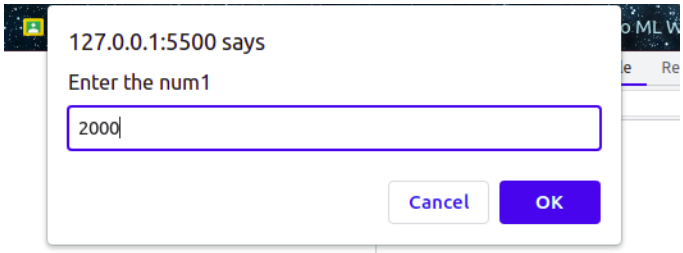


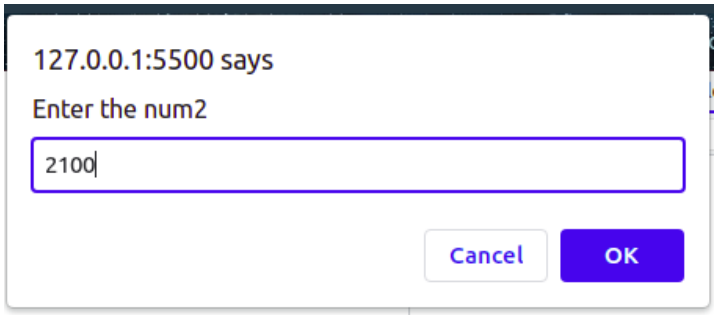
7. Write a JavaScript program to find the leap years in a given range of years

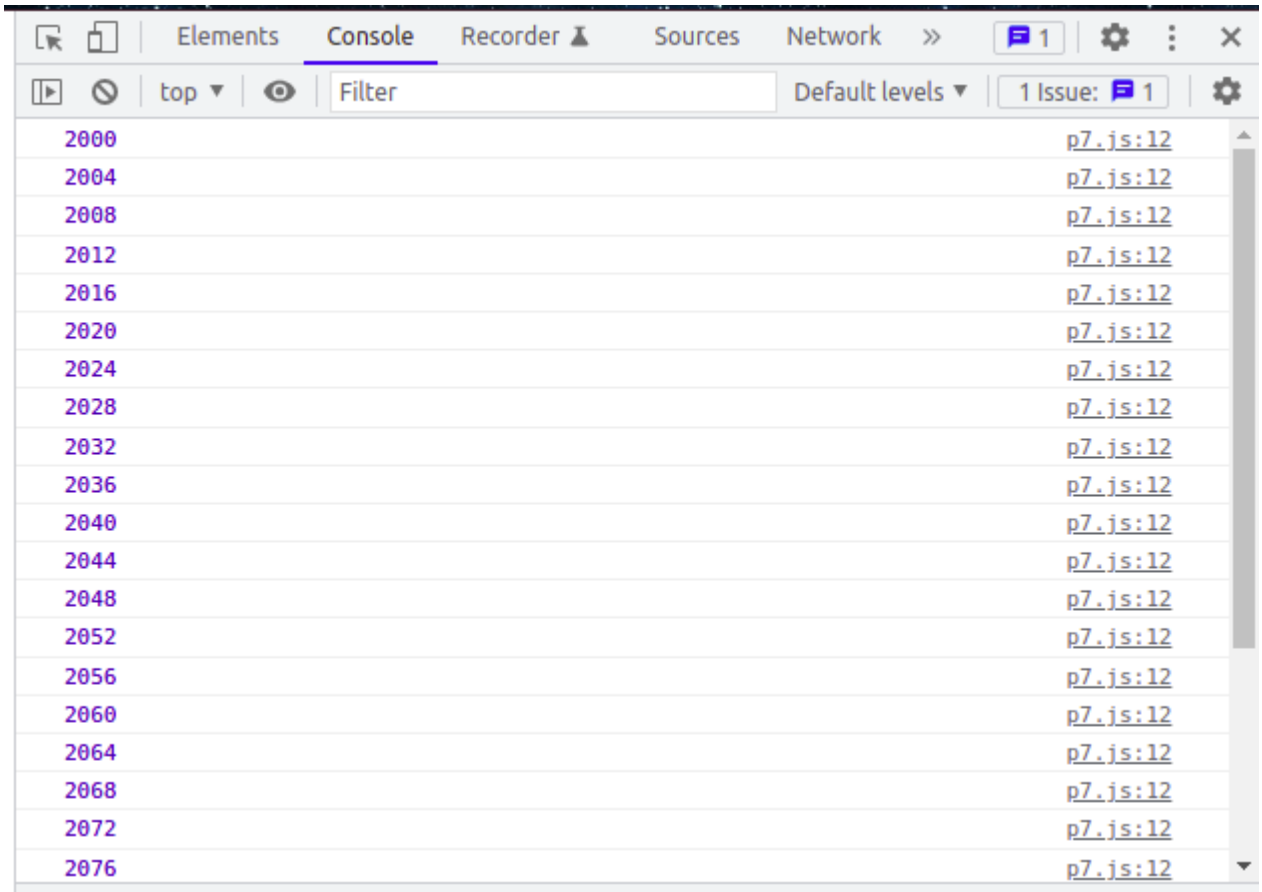
Code:-

```
function f(x,y){
   let a=[];
   for(i=x;i<=y;i++)
   {
       if(x>y)
           console.log(0);
       if(i%4===0)
       {
           if(i%100!=0 || i%400===0)
           {
               // a.push(i);
               console.log(i);
           }
       }
   }
   console.log(a);
}
let num1=prompt("Enter the num1");
let num2=prompt("Enter the num2");
let x=parseInt(num1);
let y=parseInt(num2);
f(x,y);
```

Output:-


127.0.0.1:5500 says
Enter the num1
2000
Cancel
OK


127.0.0.1:5500 says
Enter the num2
2100
Cancel
OK

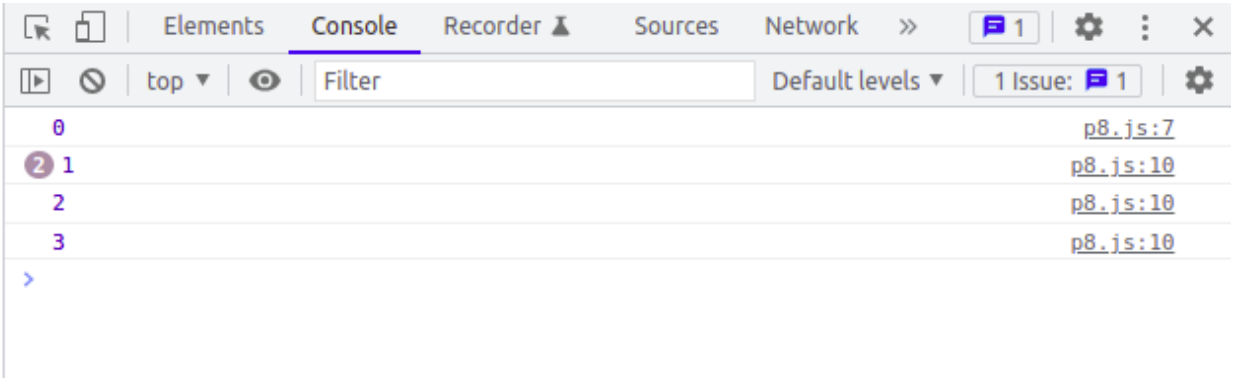

Elements
Console
Recorder
Sources
Network
top
Filter
Default levels
1 Issue: 1
2000 p7.js:12
2004 p7.js:12
2008 p7.js:12
2012 p7.js:12
2016 p7.js:12
2020 p7.js:12
2024 p7.js:12
2028 p7.js:12
2032 p7.js:12
2036 p7.js:12
2040 p7.js:12
2044 p7.js:12
2048 p7.js:12
2052 p7.js:12
2056 p7.js:12
2060 p7.js:12
2064 p7.js:12
2068 p7.js:12
2072 p7.js:12
2076 p7.js:12

8. Write a JavaScript Program to Print the Fibonacci Sequence.

Code:-

```
function fib(n){
   let a=0,b=1;
   if(n<1)
   {
       return;
   }
   console.log(a);
   for(i=1;i<n;i++)
   {
       console.log(b);
       let c=a+b;
       a=b;
       b=c;
   }
}
let x=prompt("Enter the number ");
let n=parseInt(x);
fib(n);
```

Output:-

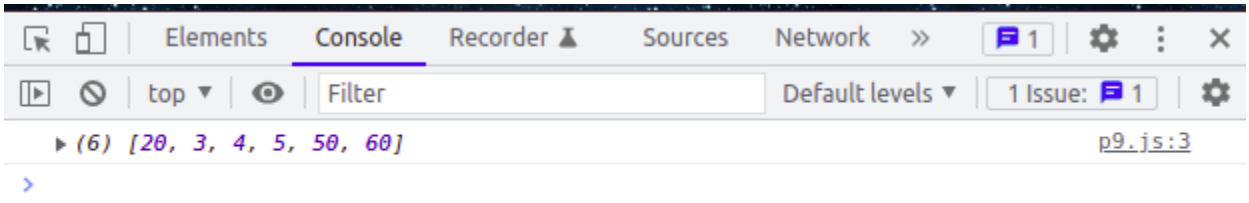


9. Write a JavaScript Program to add elements to the existing array at specific position.

Code:-

```
var a = [ 20, 30, 40, 50, 60 ];
a.splice(1, 2, 3, 4, 5);
console.log(a);
```

Output:-

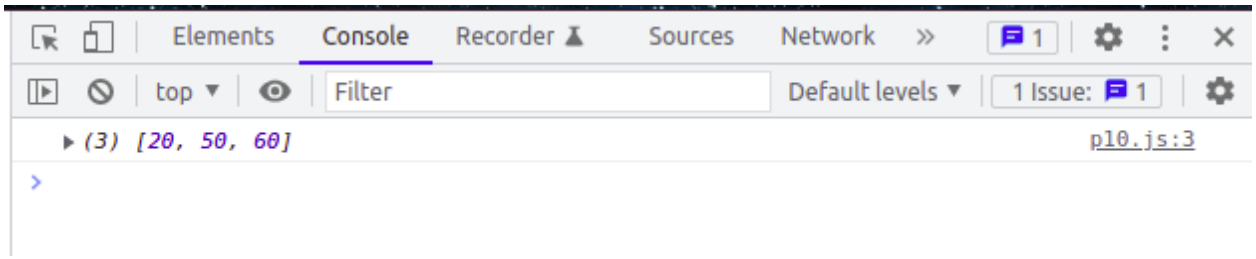


10. Write a JavaScript Program to delete elements from the existing array at specific position.

Code:-

```
var a = [ 20, 30, 40, 50, 60 ];
a.splice(1, 2);
console.log(a);
```

Output:-



11. Demonstrate the difference between let, var and const.

Code:-

```
/*//Example1
let a = 10;
function f() {
   let b = 9
   console.log(b);
   console.log(a);
}
f();*/

//Example2
```

```
/*let a = 10;
function f() {
   if (true) {
       let b = 9

       // It prints 9
       console.log(b);
   }

   // It gives error as it
   // defined in if block
   console.log(b);
}
f()

// It prints 10
console.log(a)*/

//Example3
//Users cannot re-declare the variable defined with the let keyword but
can update it.
//let a = 10
// It is not allowed
/*let a = 9

// It is allowed
a = 7
console.log(a);*/

//Example4
/*Users can declare the variable with the same name
in different blocks using the let keyword*/
/*let a = 10
 if (true) {
   let a=9
   console.log(a) // It prints 9
 }
 console.log(a) // It prints 10*/

 //Example5
```

```
 /*If users use the let variable before the declaration,
 it does not initialize with undefined just like a var variable and return
an error*/
 console.log(a);
   let a = 10;
```

```
//Example 1
/*var a = 10
       function f(){
           console.log(a)
       }
   f();
   console.log(a);*/

//Example2
/*function f() {
   // It can be accessible any
   // where within this function
   var a = 10;
   console.log(a)
}
f();

// A cannot be accessible
// outside of function
console.log(a);*/

//Example3
/*var a = 10

// User can re-declare
// variable using var
var a = 8
console.log(a);
// User can update var variable
a = 7
console.log(a);*/

//Example4
```

```
console.log(a);
   var a = 10;
```

12.String Methods.

Code:-

```
function print(){
   let name=document.getElementById("st").value;
   // console.log(id);
   let l=name.length;
   alert("Length of the sting is :-"+l);
}
function sl(){
   let sname=document.getElementById("sl1").value;
   let st=document.getElementById("sl2").value;
   let en=document.getElementById("sl3").value;
   let start=parseInt(st);
   let end=parseInt(en);
   let sn=sname.slice(start,end);
   alert(sn);
}
function ss(){
   let snam=document.getElementById("ss1").value;
   let st=document.getElementById("ss2").value;
   let en=document.getElementById("ss3").value;
   let start=parseInt(st);
   let end=parseInt(en);
   let s=snam.slice(start,end);
   alert(s);
}
function re(){
   let snam=document.getElementById("re1").value;
   let st=document.getElementById("re2").value;
   let en=document.getElementById("re3").value;
   // let start=parseInt(st);
   // let end=parseInt(en);
   let s=snam.replace(st,en);
   alert(s);
}
```

```
function conc(){
   let snam=document.getElementById("co1").value;
   let st=document.getElementById("co2").value;
   let s=snam.concat(" ",st);
   alert(s);
}

function pa(){
   let snam=document.getElementById("pa1").value;
   let st=document.getElementById("pa2").value;
   let re=document.getElementById("pa3").value;
   let n=parseInt(st);
   let s=snam.padStart(st,re);
   alert(s);
}
```