

JavaScript Evidence

1. Calculate the odd-even number by given input during runtime? (More imp.)
2. Calculate the largest number among the three numbers? (More imp.)
3. Calculate the Maximum and Minimum number among n numbers? (Most imp.)
4. Giving input in runtime and check whether it is prime or not? (Most imp.) If it is a non-prime number, displays all of its divisors.
5. Calculate factorial value of a number? (Most imp.)
6. Display the table number of a given number. (Less imp.)
7. Create an array which has five elements and display its value and finally display its total? (Less imp.)
8. Create a numeric array and display the sorted value of that array. (Most imp.)
9. Open/Create a new window and close it? (Less imp.)
10. Retrieve email address from a text field and validate whether “@” and “.” symbol available or not and also Retrieve password from another text field and validate whether it contains 7 characters or not? (Most imp.)
11. Change background accepting input from drop down list? (Less imp.)
12. Accept input from different form elements and display it on a new window? (Most imp.)
13. Make a digital clock? (Less imp.)
14. Find out 1 1 2 3 5 8 13 21 34 55? Or display a Fibonacci series. (More imp.)
15. Calculate the percentage of discount and the amount to be paid from the following table? (Less imp.)

Range (Tk.)	Discount (%)
100-300	10
301-700	15
701-1000	20
>1000	25

1. Calculate the odd-even number by given input during runtime? (More imp.)

```
<script>
var n=parseInt(prompt("Enter any number",""));
if(n%2==0)
{
    document.write("Number "+n+" is even");
}
else
{
    document.write("Number "+n+" is odd");
}
</script>
```

2. Calculate the largest number among the three numbers? (More imp.)

```
<script>
var num1=parseInt(prompt("Enter First Number",""));
var num2=parseInt(prompt("Enter Second Number",""));
var num3=parseInt(prompt("Enter Third Number",""));
if(num1>num2){
    if(num1>num3){
        document.write("Number 1 is the greatest: "+num1);
    }
    else{
        document.write("Number 3 is the greatest: "+num3);
    }
}
else{
    if(num2>num3){
        document.write("Number 2 is the greatest: "+num2);
    }
    else{
        document.write("Number 3 is the greatest: "+num3);
    }
}
//document.write(Math.max(num1, num2, num3))
</script>
```

3. Calculate the Maximum and Minimum number among n numbers? (Most imp.)

```
<script>
var count=parseInt(prompt("Enter any number",""));
var max=0, min=0;
for (i=0; i<count; i++){
    var number= Number(prompt("Enter your numbrt" +(i+1)));
    document.write(number+" ")
    if(i==0){
        max=number;
```

```

        min=number;
    }
    else if (number>max){
        max=number;
    }
    else if (number<min){
        min=number;
    }
    else{
        continue;
    }
}
document.write("<br> Max is" +max+" Min is "+min)
</script>

```

4. Giving input in runtime and check whether it is prime or not? (Most imp.) If it is a non-prime number, displays all of its divisors.

```

<script>
var a=parseInt(prompt("Enter any number\ngreater than 1",""));
var divisor= new Array();
for(var i=1;i<=a; i++)
{
    if(a%i==0)
    {
        divisor.push(i);
    }
}
if(divisor.length==2)
document.write(a+ " is <b>prime</b> since it is divisible by : <b>" + divisor);
else
document.write(a+ " is <b>not prime</b> since it is divisible by : <b>" + divisor);
</script>

```

5. Calculate factorial value of a number? (Most imp.)

```

<script>
var a=prompt("Enter the Factorial Number of","");
var fact=1;
while(a>0)
{
    fact*=a;
    a--;
}
document.write("The factorial is: "+fact);
</script>

```

6. Display the table number of a given number. (Less imp.)

```
<script>
var n =parseInt(prompt("Enter your number",""));
for(i=1; i<=10; i++){
document.write(n+" X"+i+"   =" +n*i+"<br>");
}
</script>
```

7. Create an array which has five elements and display its value and finally display its total? (Less imp.)

```
<script>
var arr=[2, 3 ,4, 5, 8, 9];
var sum=0;
for(i=0; i<arr.length; i++){
document.write(arr[i]+"<br>");
sum+=arr[i];
}
document.write( "Total number is " + sum);
</script>
```

8. Create a numeric array and display the sorted value of that array. (Most imp.)

```
<script type="text/javascript">
/*function sortNumber(a, b)
{
document.write(a+"-"+b+"="+a-b)+"<br/>");
return a - b;
}*/
//document.write("<br/>" +arr.sort(sortNumber));
var arr = new Array();
arr[0] = 10;
arr[1] = 5;
arr[2] = 40;
arr[3] = 25;
arr[4] = 26;
arr[5] = 1000;
arr[6] = 1;
document.write("Original value= "+arr + "<br />");
for(var i=0; i<arr.length; i++)
{
for(var j=i+1; j<arr.length; j++)
{
if(arr[i]>arr[j])
{
var k=arr[i];
arr[i]=arr[j];
arr[j]=k;
}
}
}
//document.write("<font color=red>" +arr+"</font><br/>");
} //document.write("End of Loop "+(i+1)+"<br/>");
```

```
}  
document.write("Sorted value<br/>");  
document.write(arr);  
</script>
```

9. Open/Create a new window and close it? (Less imp.)

```
function openWin()  
{  
  //a=open("", "", "");  
  
  a=open("", "hello", "width=600,height=500, resizable=no");  
  
  //a=open("Clock.html", "", "width=400,height=200,toolbar=yes,location=yes,directories=yes,status=yes,  
  menubar=yes,scrollbars=yes,copyhistory=yes,resizable=no");  
  a.moveTo(screen.width/2-300,screen.height/2-250)  
  a.document.write(a.name);  
  //alert(a.name);  
}  
//http://www.javascriptkit.com/javatutors/advwin2.shtml  
function closeWin()  
{  
  if(a.closed)  
  {  
    alert("window already closed!");  
  }  
  else  
  {  
    a.close();  
  }  
}  
</script>
```

10. Retrieve email address from a text field and validate whether “@” and “.” symbol available or not and also Retrieve password from another text field and validate whether it contains 7 characters or not? (Most imp.)

```
</head>  
<body>  
<script>  
function validateForm(){  
  var msg = "";  
  var email =document.forms.myForm.email.value;  
  var ps =document.getElementById('pass').value;  
  msg+=checkEmail(email);  
  msg+=checkLength(ps);  
  if(msg=="") msg="All Ok"  
  document.getElementById('error').innerHTML= msg;  
}
```

```

function checkEmail (strng){
    var error="";
    var atpos= strng.indexOf("@");
    var dotpos= strng.lastIndexOf(".");
    if (atpos<1 || dotpos<atpos+2 || dotpos+2>=strng.length){
        error= atpos+" "+dotpos+" "+strng.length+ " Please give me your validate email.<br>";
    }
    return error;
}

```

```

function checkLength (strng){
    var error="";
    if (strng.length<7){
        error ="Password must be at 7 characters <br>";
    }
    return error;
}

```

```

</script>
<form name="myForm">
Email: <input type="text" name="email"><br>
Password: <input type="password" id="pass" ><br>
<div id="error"></div>
<input type="button" value="validate" onclick="validateForm()"/>
</form>
</body>

```

11. Change background accepting input from drop down list? (Less imp.)

```

<script>
function dropBack()
{
    //var a=document.F.menu.selectedIndex;
    //alert(index);
    var col=document.F.menu.value;
    //alert(col);
    document.bgColor=col;
    //document.F.d.disabled=true;
}
</script>
</head>
<body>
<form name="F">
Select Color:
<select name="menu" onchange="dropBack()">
    <option value="Red">Red</option>
    <option value="blue">Blue</option>
    <option value="Aqua">Aqua</option>
    <option value="Green">Green</option>
    <option value="Olive">Olive</option>

```

```

</select>
<!--<input type="button" value="Change color" onClick="dropBack()" name="d">
<input type="text" value="" onBlur="dropBack()">-->
</form>

```

12. Accept input from different form elements and display it on a new window? (Most imp.)

```

<head>
<title>JavaScript - Example form</title>
<script type="text/javascript">
function checkEmail (strng) {
var error="";
var atpos = strng.indexOf("@");
var dotpos = strng.lastIndexOf(".");
// atpos<1 checks at least one character before @
// dotpos<=atpos+2 checks at least two characters after @
// dotpos+2>=strng.length checks at least two characters after .
    if (atpos<1 || dotpos<=atpos+2 || dotpos+2>=strng.length) {
        error = "Please enter a valid email address.";
        alert(error);
        return false;
    }
return true;
}

function checkForm(){
var allthings=""; //variable to store all data
//for text field and text area
for (i=0;i<3;i++) {
    var box = document.forms['example'].elements[i];
    if (!box.value) {
        alert('You haven\'t filled in ' + box.name + '!');
        box.focus()
        return false;
    }
    allthings += box.name + ': ' + box.value + '<br>';
}
//checking valid email
if(!checkEmail(document.forms['example'].elements[2].value)){
    document.forms['example'].elements[2].focus();
    return false;
}
//for radio
user_input = document.forms['example'].subject.value;
allthings += "Subject : " + user_input + '<br>';
//for select
user_select = document.forms['example'].area.value;
allthings += "Area : " + user_select + '<br>';
// for checkbox

```

```

var courseLeng = document.forms[0].course.length;
var courseResult="";
for(var i=0; i<courseLeng; i++){
courseValue = document.forms['example'].course[i].checked;
    if(courseValue){
        courseResult += document.forms['example'].course[i].value+" ";
    }
}
allthings += "Course : " + courseResult + '<br>';
//open window
a=open("", "", "");
a.document.write("<div id='output'></div>");
//display in new window
a.document.getElementById('output').innerHTML=allthings
//display in current window
document.getElementById('output').innerHTML=allthings
}
</script>
<style type="text/css">

</style>
</head>
<body>
<form name="example" action="#" method="get" onsubmit="checkForm(); return false">
<table class="form">
<tbody>
    <tr>
        <td>Name</td>
        <td><input name="name" id="name" ></td>
    </tr>
    <tr>
        <td>Address</td>
        <td><textarea name="address" ></textarea></td>
    </tr>
    <tr>
        <td>E-mail</td>
        <td><input name="email"></td>
    </tr>
    <tr>
        <td>Corse</td>
        <td><input name="subject" id="subject" value="Oracle" type="radio">Oracle<br>
        <input name="subject" id="subject" value="J2EE" type="radio">J2EE<br>
        <input name="subject" id="subject" value="NT" type="radio">NT
        </td>
    </tr>
    <tr>
        <td>Select Area</td>
        <td><select name="area" required="1">

```



```

        <option value="" selected="selected" >--- Select ---</option>
        <option value="Kakrile">Kakrile</option>
        <option value="Motijheel">Motijheel</option>
        <option value="Banani">Banani</option>
        <option value="Panthapath">Panthapath</option>
    </select>
</td>
</tr>
<tr>
    <td>Education</td>
    <td><input name="course" value="SSC" type="checkbox">SSC<br>
        <input name="course" value="HSC" type="checkbox">HSC<br>
        <input name="course" value="BSC" type="checkbox">BSC<br>
        <input name="course" value="MSC" type="checkbox">MSC</td>
</tr>
<tr><td colspan="2"><input value="Submit form" type="submit"><br>
    <input type="reset"></td>
</tr>
<tr><td colspan="2"><div id='output'></div></td>
</tr>
</tbody>
</table>
</form>
</body>

```

13. Make a digital clock? (Less imp.)

```

<style>
    body {
        background-color: #80d4ea;
    }
    #demo {
        height: 100px;
        width: 800px;
        margin: auto;
        position: absolute;
        top: 0; left: 0; bottom: 0; right: 0;
        padding-top: 70px;
        font-family: courier, monospace;
        text-align: center;
        color: white;
        font-size: 100px;
    }
</style>
</head>
<body onLoad="digitalWatch()">
<div id="demo"></div>
<script language="javascript">
function digitalWatch()

```

```

{
    var today = new Date();
    var h = today.getHours();
    var m = today.getMinutes();
    var s = today.getSeconds();
    h = checkTime(h);
    m = checkTime(m);
    s = checkTime(s);

    document.getElementById("demo").innerHTML = h + ":" + m + ":" + s ;
    setTimeout(function(){digitalWatch()},500);
}
function checkTime(i)
{
    if(i<10){
        i = "0" + i;
    }
    return i;
}
</script>

```

14. Find out 1 1 2 3 5 8 13 21 34 55? Or display a Fibonacci series. (More imp.)

```

<script>
    var a=1,b=1,c;
    var ctr=0;
    document.write(a+"<br>"+"b+"<br>");
    while(ctr<=10)
    {
        c=a+b;
        document.write(c+"<br>");
        a=b;
        b=c;
        ctr++;
    }
</script>

```

15. Calculate the percentage of discount and the amount to be paid from the following table? (Less imp.)

Range (Tk.)	Discount (%)
100-300	10
301-700	15
701-1000	20
>1000	25

```

<script>
var amt=0, discount=0;
amt=prompt("Purchase amount","enter the purchase amount");
if(amt<100)
{

```

```
document.write("Sorry, no discount"+"<br>");
}
else if((amt>=100) && (amt<=300))
{
discount=10;
//document.write("Discount="+discount+"%"+"<br>");
}
else if((amt>300) && (amt<=700))
{
discount=15;
}
else if((amt>700) && (amt<=1000))
{
discount=20;
//document.write("Discount="+discount+"%"+"<br>");
}
else
{
discount=25;
//document.write(discount+"%"+"<br>");
}
document.write("Discount="+discount+"%"+"<br>");
amt=amt-((amt*discount)/100);
document.write("Amount to be paid: "+amt);
</script>
```

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