

1.

```
<!doctype html>

<html>

<head>

<script>

function show(){

    var i, no, fact;

    fact=1;

    no=Number(document.getElementById("num").value);

    for(i=1; i<=no; i++)

    {

        fact= fact*i;

    }

    document.getElementById("answer").value= fact;

}

</script>

</head>

<body>

Enter Num: <input id="num">

<button onclick="show()">Factorial</button>

<input id="answer">

</body>

</html>
```

2.

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<button onclick="myFunction()">reverse</button>
```

```
<p id="demo"></p>
```

```
<script>
```

```
var num = [40, 100, 1, 5, 25, 10,3,7,8,9,23,45,6,7];
```

```
document.getElementById("demo").innerHTML = num;
```

```
function myFunction() {
```

```
    num.sort(function(a, b){return a - b});
```

```
    document.getElementById("demo").innerHTML = num;
```

```
}
```

```
</script>
```

```
</body>
```

```
</html>
```

3.

4.

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<script>
```

```
function createTable()
```

```
{
```

```
rn = window.prompt("Input number of rows", 1);
```

```
cn = window.prompt("Input number of columns",1);
```

```
for(var r=0;r<parseInt(rn,10);r++)
```

```
{
```

```
var x=document.getElementById('myTable').insertRow(r);
```

```
for(var c=0;c<parseInt(cn,10);c++)
```

```
{
```

```
var y= x.insertCell(c);
```

```
y.innerHTML="Row-"+r+" Column-"+c;
```

```
}
```

```
}
```

```
}
```

```
</script>
```

```
<meta charset=utf-8 />
```

```
<title>Create a table</title>
```

```
<style type="text/css">
body {margin: 30px;}
</style>
</head><body>
<table id="myTable" border="1">
</table><form>
<input type="button" onclick="createTable()" value="Create the table">
</form>
</body>
</html>
```

5.

```
<!DOCTYPE html>
<html>
<body>

<h2></h2>

<p id="demo"></p>

<script>

var person = {
    firstName : "Nadeesha",
```

```
        lastName : "Shihani",
        dateofbirth: '19950515',
        gender : "female"

    };

    var dob = person.dateofbirth;
    var year = Number(dob.substr(0, 4));
    var month = Number(dob.substr(4, 2)) - 1;
    var day = Number(dob.substr(6, 2));
    var today = new Date();
    var age = today.getFullYear() - year;
    if (today.getMonth() < month || (today.getMonth() == month && today.getDate() < day)) {
        age--;
    }
    ;

    document.getElementById("demo").innerHTML =
    person.firstName + " " + person.lastName+" is "+age+" years old";
</script>
</body>
</html>
```

6.

The `indexOf()` method returns the index within the calling String object of the first occurrence of the specified value, The `lastIndexOf()` method returns the index within the calling String object of the last occurrence of the specified value

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<p id="demo"></p>
```

```
<button onclick="myFunction()">Try it</button>
```

```
<script>
```

```
var my = "The UCSC is involved in many research areas";
```

```
alert(my);
```

```
function myFunction() {
```

```
    var str = my;
```

```
    var n = str.indexOf("e");
```

```
    document.getElementById("demo").innerHTML = n;
```

```
}
```

```
document.getElementById("demo").innerHTML =
```

```
my;
```

```
</script>
```

</body>

</html>