Sum

```html
<!doctype html>

<html>

<head>

<meta charset="utf-8">

<title>Untitled Document</title>

</head>

<body>

<script>

var sn = parseInt(prompt("Enter the number", ""));

var en = parseInt(prompt("Enter the number", ""));

var sum=0;

function sumNum(sn,en){

for(sn; sn<=en; sn++){

        sum+=sn;

    }

        document.write(sum+ "<br/>");

 }

 sumNum(sn,en);

</script>

</body>

</html>
```

Bignum

```
<!doctype html>

<html>

<head>

<meta charset="utf-8">

<title>Untitled Document</title>

</head>

<body>

<script>

var num1 = parseInt(prompt("Enter first number",""));

var num2 = parseInt(prompt("Enter second number",""));

var num3 = parseInt(prompt("Enter thrid number",""));

if(num1>num2){

        if(num1>num3){

                document.write("number 1 is the greatest: "+num1);

                }else{

                document.write("number 1 is the greatest: "+num3);

                 }

}else{

        if(num2>num3){

                document.write("number 2 is the greatest: "+num2);

                }else{

                document.write("number 2 is the greatest: "+num3);

                 }

        }

</script>

</body>

</html>
```

<u>ColorChange</u>

```
<!doctype html>

<html>

<head>

<meta charset="utf-8">

<title>Untitled Document</title>

<script>

function dropBack(){

        var col = document.F.menu.value;

        document.bgColor=col;

        }

</script>

</head>

<body>

<form name="F">

<select name="menu" onChange="dropBack()">

<option value="Red">Red</option>

<option value="Green">Green</option>

<option value="Blue">Blue</option>

<option value="Aqua">Aqua</option>

<option value="Olive">Olive</option>

<option value="Yellow">Yellow</option>

</select>

</form>

</body>

</html>
```

Email

```html
<!doctype html>

<html>

<head>

<meta charset="utf-8">

<title>Untitled Document</title>

<script>

function validateEmail(){

        //a@g.cn

        var x = document.forms["myForm"]["email"].value;

        var atpos = x.indexOf("@");

        var dotpos = x.lastIndexOf(".");

        if(atpos<1 || dotpos<atpos+2 || dotpos+2>= x.length){

                alert("Not a valid email address");

                return false;

                }else{

                alert("Email address is valid");

                        }

        }

</script>

</head

<body>

<form name="myForm" action="#" onSubmit="return validateEmail()" method="post">

Email:

<input type="text" name="email">

<input type="submit" value="send">

</form>

</body>

</html>
```

EvenOdd

```
<!doctype html>

<html>

<head>

<meta charset="utf-8">

<title>Untitled Document</title>

</head>


<body>

<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>

</body>

</html>
```

Factorial

```
<!doctype html>

<html>

<head>

<meta charset="utf-8">

<title>Untitled Document</title>

</head>

<body>
```

```
<script>

var n = parseInt(prompt("Enter first number", ""));

var multi =1;

for(n; n>=1; n--){

        multi*=n

        }

        document.write(multi);

</script>

</body>

</html>
```

Fibonacci

```
<!doctype html>

<html>

<head>

<meta charset="utf-8">

<title>Untitled Document</title>

</head>

<body>

<script>

var i;

var fib = []//initialize array

fib [0] = 0;

fib [1] = 1;

for(i=2; i<=10; i++){

        //Next fibonacci number = previous+ one before previous number

        //Translated to javaScript

fib[i] = fib[i-2]+fib[i-1];
```

```
document.write(fib[i]+"<br/>");

        }

</script>

</body>

</html>
```

findPrime

```
<!doctype html>

<html>

<head>

<meta charset="utf-8">

<title>Untitled Document</title>

</head>

<body>

<script>

var number = prompt("Enter Value", "");

for(i=2; i<=number; i++){

        if(number ==i){

                document.write(number +" is a prime number");

                }else if(number % i==0){

                document.write(number +" is not a prime number");

                break;

                        }

        }

</script>

</body>

</html>
```

Prime

```
<!doctype html>

<html>

<head>

<meta charset="utf-8">

<title>Untitled Document</title>

</head>

<body>

<script>

function isPrime(num){

        for(var i=2; i<num; i++)

        if(num% i===0)

        return false;

        return num  !==1 && num !==0;

        }

        alert(isPrime(7));

function printPrimes(sn,en){

        for(sn; sn<en; sn++){

                if(isPrime(sn)){

                        document.write(sn+ "<hr/>");

                        }

                }

        }

        printPrimes(1,100);


function printSumFromPrimes(sn,en){

        var sum = 0;
```

```
        for(sn; sn<en; sn++){

                if(isPrime(sn)){

                        sum+=sn;

                }

        }

        return sum;

        }

        document.write("Sum From Primes Number From 1, 100:"+
printSumFromPrimes(1,100)+"<br/>");


function printCountFromPrimes(sn,en){

        var count = 0;

        for(sn; sn<en; sn++){

                if(isPrime(sn)){

                        count++;

                }

        }

        return count;

        }

        document.write("count From Primes Number From 1, 100:"+ printCountFromPrimes(1,100));
</script>
</body>
</html>
```

SentinelValue

```
<!doctype html>
<html>
<head>
```

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

<title>Untitled Document</title>

</head>

<body>

<h2>Sentinel Value</h2>

<script>

var n = 0;

var sum = 0;

while(n != -1){

        n = parseInt(prompt("Enter Number:", ""));

        if(n !=-1){

                sum+=n;

                }

        }

        alert(sum);

</script>

<h1>Best of luck!</h1>

</body>

</html>
```

Form

```
<!doctype html>

<html>

<head>

<meta charset="utf-8">

<title>Untitled Document</title>

<style>

label{
```

```
        color: red;

        padding: 3px 10px;

        }
</style>
</head>

<body>
<form name="myForm">
Name:
<input type="text" name="fname"/><label id="fname"></label><br/>
ID:
<input type="number" name="id"/><label id="id"></label><br/>
Email:
<input type="email" name="email"/><label id="email"></label><br/>
Password:
<input type="password" name="password"/><label id="password"></label><br/>
Gender:
<input type="radio" name="gender" value="Male"/>Male
<input type="radio" name="gender" value="Male"/>Male
<label id="gender"></label><br/>
Education:
<input type="checkbox" name="ssc" value="SSC"/>SSC
<input type="checkbox" name="hsc" value="HSC"/>HSC
<label id="education"></label><br/>
Round:
<select name="round">
<option value="Select A Round" selected="selected">Select A Round</option>
<option value="Round 37">Round-37</option>
<option value="Round 38">Round-38</option>
```

```html
<option value="Round 39">Round-39</option>

</select>

<label id="round"></label><br/>


<textarea rows="5" cols="20" name="msg" placeholder="Enter at 10 characters"></textarea>

<label id="msg"></label><br/>

<input type="reset" value="reset">

</form>

<button onClick="validateForm()">Submit</button>

<button onClick="closeWindow()">close Window</button>


<script>

var win;

function closeWindow(){

        win.close();

        }

function validateForm(){

/////for name/////

var fname = document.forms["myForm"]["fname"].value;

var id = document.forms["myForm"]["id"].value;

var email = document.forms["myForm"]["email"].value;

var password = document.forms["myForm"]["password"].value;

var gender = document.forms["myForm"]["gender"].value;

var education = "";

  if(document.forms["myForm"].ssc.checked){

        education+= document.forms["myForm"]["ssc"].value;

        }

  if(document.forms["myForm"].hsc.checked){

        education+= document.forms["myForm"]["hsc"].value;
```

```javascript
        }
var round = document.forms["myForm"]["round"].value;

var msg = document.forms["myForm"]["msg"].value;


        /////validation for name feild/////
if(fname == ""){

        document.getElementById('fname').innerHTML = "Name must feild out";

        return false;

        } else if(fname.length<3){

        document.getElementById('fname').innerHTML = "Name length 3 characters";

        return false;

    }else{

        document.getElementById('fname').innerHTML = "";

                        }


                        /////validation for id feild/////
if(id == ""){

        document.getElementById('id').innerHTML = "id must feild out";

        return false;

        }else{

        document.getElementById('id').innerHTML = "";

                        }


 /////validation for email feild/////
if(email==""){

                document.getElementById('email').innerHTML="Enter your email ID";

                return false;

                }else{

                    var atpos=email.indexOf("@");
```

```javascript
            var dotpos=email.lastIndexOf(".");
        if(atpos<1 || dotpos<atpos+2 || dotpos+2>=email.length){
        document.getElementById('email').innerHTML="Enter your email ID";
            return false;
        }else{
        document.getElementById('email').innerHTML="";
                }
            }
```

```javascript
                /////validation for password feild/////
if(password == ""){
        document.getElementById('password').innerHTML = "password must feild out";
        return false;
        }else{
        document.getElementById('password').innerHTML = "";
                }
```

```javascript
                /////validation for gender feild/////
if(gender == ""){
        document.getElementById('gender').innerHTML = "Tell me your gender";
        return false;
        }else{
        document.getElementById('gender').innerHTML = "";
                }
```

```javascript
                /////validation for education feild/////
if(!document.forms["myForm"].ssc.checked && !document.forms["myForm"].hsc.checked){
        document.getElementById('education').innerHTML = "Tell me your education";
```

```
        return false;
         }else{
        document.getElementById('education').innerHTML = "";
                        }


                /////validation for round feild/////
if(round == "Select A Round"){
        document.getElementById('round').innerHTML = "Tell me your round";
        return false;
         }else{
        document.getElementById('round').innerHTML = "";
                        }


                /////validation for message feild/////
if(msg.length<10){
        document.getElementById('msg').innerHTML = "Enter at least 10 characters";
        return false;
         }else{
        document.getElementById('msg').innerHTML = "";


                /////open new window/////
                win = window.open("", "", "width=400");
                win.document.write("<h2><center>Form Output</center></h2><hr/>");


                  win.document.write("Name: " +fname+ "<br/>");
                  win.document.write("ID: " +id+ "<br/>");
                  win.document.write("Email: " +email+ "<br/>");
                        win.document.write("Password: " +password+ "<br/>");
                        win.document.write("Gender: " +gender+ "<br/>");
```

```
        win.document.write("Education: " +education+ "<br/>");

        win.document.write("Round: " +round+ "<br/>");

    win.document.write("Comments: " +msg+ "<br/>");

        }


    }
</script>
</body>
</html>
```