

### Example#1: JavaScript Multiplication Table

Create a simple multiplication table asking the user the number of rows and columns he wants.

```
<html>
<head>
  <title>Multiplication Table</title>
  <script type="text/javascript">
    var rows = prompt("How many rows for your multiplication
table?");
    var cols = prompt("How many columns for your multiplication
table?");
    if(rows == "" || rows == null)
      rows = 10;
    if(cols== "" || cols== null)
      cols = 10;
    createTable(rows, cols);
    function createTable(rows, cols)
    {
      var j=1;
      var output = "<table border='1' width='500'
cellspacing='0'cellpadding='5'>";
      for(i=1;i<=rows;i++)
      {
        output = output + "<tr>";
        while(j<=cols)
        {
          output = output + "<td>" + i*j + "</td>";
          j = j+1;
        }
        output = output + "</tr>";
        j = 1;
      }
      output = output + "</table>";
      document.write(output);
    }
  </script>
</head>
<body>
</body>
</html>
```

### Example#2: JS Forms Example:

Create a sample form program that collects the first name, last name, email, user id, password and confirms password from the user. All the inputs are mandatory and email address entered should be in correct format. Also, the values entered in the password and confirm password textboxes should be the same. After validating using JavaScript, In output display proper error messages in red color just next to the textbox where there is an error.

```
<html>
<head>
  <title>Form Validation</title>
  <script type="text/javascript">
    var divs = new Array();
    divs[0] = "errFirst";
    divs[1] = "errLast";
    divs[2] = "errEmail";
    divs[3] = "errUid";
    divs[4] = "errPassword";
    divs[5] = "errConfirm";
    function validate()
    {
      var inputs = new Array();
      inputs[0] = document.getElementById('first').value;
      inputs[1] = document.getElementById('last').value;
      inputs[2] = document.getElementById('email').value;
      inputs[3] = document.getElementById('uid').value;
      inputs[4] = document.getElementById('password').value;
      inputs[5] = document.getElementById('confirm').value;
      var errors = new Array();
      errors[0] = "<span style='color:red'>Please enter your
first name!</span>";
      errors[1] = "<span style='color:red'>Please enter your
last name!</span>";
      errors[2] = "<span style='color:red'>Please enter your
email!</span>";
      errors[3] = "<span style='color:red'>Please enter your
user id!</span>";
      errors[4] = "<span style='color:red'>Please enter your
password!</span>";
      errors[5] = "<span style='color:red'>Please confirm your
password!</span>";
      for (i in inputs)
      {
        var errMessage = errors[i];
```

```

        var div = divs[i];
        if (inputs[i] == "")
            document.getElementById(div).innerHTML =
errMessage;
        else if (i==2)
        {
            var atpos=inputs[i].indexOf("@");
            var dotpos=inputs[i].lastIndexOf(".");
            if (atpos<1 || dotpos<atpos+2 ||
dotpos+2>=inputs[i].length)
                document.getElementById('errEmail').innerHTML =
"<span style='color: red'>Enter a valid email address!</span>";
            else
                document.getElementById(div).innerHTML = "OK!";
        }
        else if (i==5)
        {
            var first =
document.getElementById('password').value;
            var second =
document.getElementById('confirm').value;
            if (second != first)
                document.getElementById('errConfirm').innerHTML =
"<span style='color: red'>Your passwords don't match!</span>";
            else
                document.getElementById(div).innerHTML =
"OK!";
        }
        else
            document.getElementById(div).innerHTML = "OK!";
    }
}

function finalValidate()
{
    var count = 0;
    for(i=0;i<6;i++)
    {
        var div = divs[i];
        if(document.getElementById(div).innerHTML == "OK!")
            count = count + 1;
    }
    if(count == 6)
        document.getElementById("errFinal").innerHTML =
"All the data you entered is correct!!!";
    }
</script>
</head>

```

```
<body>
  <table id="table1">
    <tr>
      <td>First Name:</td>
      <td><input type="text" id="first" onkeyup="validate();"
/></td>
      <td><div id="errFirst"></div></td>
    </tr>
    <tr>
      <td>Last Name:</td>
      <td><input type="text" id="last"
onkeyup="validate();" /></td>
      <td><div id="errLast"></div></td>
    </tr>
    <tr>
      <td>Email:</td>
      <td><input type="text" id="email"
onkeyup="validate();" /></td>
      <td><div id="errEmail"></div></td>
    </tr>
    <tr>
      <td>User Id:</td>
      <td><input type="text" id="uid"
onkeyup="validate();" /></td>
      <td><div id="errUid"></div></td>
    </tr>
    <tr>
      <td>Password:</td>
      <td><input type="password" id="password"
onkeyup="validate();" /></td>
      <td><div id="errPassword"></div></td>
    </tr>
    <tr>
      <td>Confirm Password:</td>
      <td><input type="password" id="confirm"
onkeyup="validate();" /></td>
      <td><div id="errConfirm"></div></td>
    </tr>
    <tr>
      <td><input type="button" id="create" value="Create"
onclick="validate();finalValidate();" /></td>
      <td><div id="errFinal"></div></td>
    </tr>
  </table>
</body>
</html>
```

