

//4 way to access form elements from JS

```
<html>
<body>
<form id="form1" name="frml" action="">
First name: <input type="text" id="fname" value="vijayan" name="fname1"> <br>
Last name: <input type="text" id="lname" name="lname1" value="R"><br>
Date of Birth:<input type="text" id="dobdate" name="dobdate">
<input type="text" id="dobmn" name="dobm">
<input type="text" id="doby" name="doyr"><br>
<input type="button" value="Submit" name="submitbutton" onclick="display4()" > </form>
<script type="text/javascript">
function display1()
{
var fn=document.getElementById("fname").value;
var ln=document.getElementById("lname").value;
document.write(fn+" " +ln);
}
function display3()
{
var fn=document.forms["form1"]["fname"].value;
var ln=document.forms["form1"]["lname"].value;
var yr=document.forms["form1"]["doyr"].value;
document.write(fn+" " +ln+" " +yr);
}

function display2()
{
var x=document.getElementById("form1");
var i;
for(i=0;i<x.length;i++)
{
document.write(x.elements[i].name+": "+x.elements[i].value + "<br>");
}
}
function display4()
{
var fn=document.frml.fname1.value;
var ln=document.frml.lname1.value;
document.write(fn+" " +ln);
}

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

```
<html><head>
<title>JavaScript Form Validation using a sample registration form</title>
<script src="sample-registration-form-validation.js"></script> </head>
<body>
<h1 align="center">Registration Form</h1>
<p align="center">Use tab keys to move from one input field to the next.</p>
<form id="registration" action="" method="get">
<table border=0 align="center">
<tr>
<td><label for="userid">User id:</label>
<td><input type="text" id="userid" size="12" autofocus>
</tr>
<tr>
<td><label for="passid">Password:</label>
<td><input type="password" id="passid" size="12">
</tr>
<tr>
<td><label for="userid">Name:</label>
<td><input type="text" id="username" size="12">
</tr>
<tr>
<td><label for="address">Address:</label>
<td><input type="text" id="address" size="50">
</tr>
<tr>
<td><label for="country">Country:</label>
<td><select id="country">
<option selected="" value="Default">(Please select a country)</option>
<option value="AF">Australia</option>
<option value="AL">Canada</option>
<option value="DZ">India</option>
<option value="AS">Russia</option>
<option value="AD">USA</option>
</select></td>
</tr>
<tr>
<td><label for="zip">ZIP Code:</label>
<td><input type="text" id="zip">
</tr>
<tr>
<td><label for="email">Email:</label>
<td><input type="text" id="email" size="50">
</tr>
<tr>
<td><label id="gender">Gender:</label>
<td><input type="radio" name="gender" value="Male"><span>Male</span><br>
<input type="radio" name="gender" value="Female"><span>Female</span>
</td>
</tr>
<tr>
<td><label>Language:</label>
<td><input type="checkbox" name="en" value="en"><span>English</span><br>
<input type="checkbox" name="nonen" value="noen"><span>Non English</span>
</td>
</tr>
<tr>
<td><label for="desc">About:</label>
<td><textarea id="desc" id="desc"></textarea>
</tr>
<tr>
<td colspan=2 align="center"><input type="submit" id="submit" value="Submit" onclick=
"formValidation();">
</td>
</tr>
</table>
</form>
</body>
</html>
```

```

function formValidation()
{
var frm=document.getElementById("registration");
var uid = document.getElementById("userid");
var passid = document.getElementById("passid");
var uname = document.getElementById("username");
var uadd = document.getElementById("address");
var ucountry = document.getElementById("country");
var uzip = document.getElementById("zip");
var uemail = document.getElementById("email");
var ugender = document.getElementsByName("gender");
if(userid_validation(uid,5,12))
{
if(passid_validation(passid,7,12))
{
if(allLetter(uname))
{
if(alphanumeric(uadd))
{
if(countryselect(ucountry))
{
if(allnumeric(uzip))
{
if(ValidateEmail(uemail))
{
if(validgender(ugender))
{
frm.submit();
} } } } } } }
}
document.getElementById("registration").reset();
}

function userid_validation(uid,mx,my)
{
var uid_len = uid.value.length;
if(uid_len == 0 || uid_len >= my || uid_len < mx)
{
alert("User Id should not be empty / length be between "+mx+" to "+my);
uid.focus();
return false;
}
return true;
}

function passid_validation(passid,mx,my)
{
var passid_len = passid.value.length;
if (passid_len == 0 || passid_len >= my || passid_len < mx)
{
alert("Password should not be empty / length be between "+mx+" to "+my);
passid.focus();
return false;
}
return true;
}

function allLetter(uname)
{
var letters = /^[A-Za-z]+$/;
if(uname.value==null)
{
alert('Username should not be empty');
}
else if(uname.value.match(letters))
{
return true;
}
else

```

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{
    alert('Username must have alphabet characters only');
    uname.value=" ";
    uname.focus();
    return false;
}
}

function alphanumeric(uadd)
{
    var letters = /^[0-9a-zA-Z]+$/;
    if(uadd.value.match(letters))
    {
        return true;
    }
    else
    {
        alert('User address must have alphanumeric characters only');
        uadd.focus();
        return false;
    }
}

function countryselect(ucountry)
{
    if(ucountry.value == "Default")
    {
        alert('Select your country from the list');
        ucountry.focus();
        return false;
    }
    else
    {
        return true;
    }
}

function allnumeric(uzip)
{
    var numbers = /^[0-9]+$/;
    if(uzip.value.match(numbers))
    {
        return true;
    }
    else
    {
        alert('ZIP code must have numeric characters only');
        uzip.focus();
        return false;
    }
}

function ValidateEmail(uemail)
{
    var mailformat = /^[a-zA-Z0-9_\. \- ]+\@(([a-zA-Z0-9 \- ]+\.)+([a-zA-Z0-9]{2,4}))+$/;

    if(uemail.value.match(mailformat))
    {
        return true;
    }
    else
    {
        alert("You have entered an invalid email address!");
        uemail.focus();
        return false;
    }
}

```

```
function validgender(ugender)
{
var isChecked = false;
  for (var i = 0; i < ugender.length; i++) {
    if (ugender[i].checked) {
      isChecked = true; // found one element checked
      break;
    }
  }
  if(isChecked===false)
  {
    alert("Select male/female");
  }
  return isChecked;
}
```

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