

```

//php
<?php
// define variables and set to empty values
$nameErr = $emailErr = $genderErr = "";
$name = $email = $gender = "";
function test_input($data) {
    $data = trim($data);
    $data = stripslashes($data);
    $data = htmlspecialchars($data);
    return $data;
}
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    if (empty($_POST["name"])) {
        $nameErr = "Name is required";
    } else {
        $name = test_input($_POST["name"]);
        if (!preg_match("/^[a-zA-Z-' ]*$/",$name)) {
            $nameErr = "Only letters and white space allowed (Server-side)";
        }
    }

    if (empty($_POST["email"])) {
        $emailErr = "Email is required";
    } else {
        $email = test_input($_POST["email"]);
        if (!filter_var($email, FILTER_VALIDATE_EMAIL)) {
            $emailErr = "Invalid email format (Server-side)";
        }
    }
}

```

|
| |

```

<td>&nbsp;</td>

<td>

  <input type="submit" value="SEND" id="submit"/>&nbsp;  

  <input type="reset" value="CLEAR" id="reset"/>&nbsp;  &nbsp;  

</td></tr>

</table>

</form>

</body>

</html>

```

```
// javascript (validatefrm.js)
```

```
window.onload = init;
```

```
function init() {
```

```
  // Attach "onclick" handler to "reset" button
```

```
  document.getElementById("reset").onclick = clearDisplay;
```

```
  // Set initial focus
```

```
  document.getElementById("name").focus();
```

```
}
```

```
//document.forms (Collection of all forms in the document)
```

```
//document.forms[0] (Refers to the first form in the document)
```

```
//1.[index]      Returns the element in <form> with the specified index (starts at 0).
```

```
  //document.forms[0].elements[0].value;
```

```
  //document.forms.item(0).elements[0].value;
```

```
// document.getElementById("eform").elements[0].value;
```

```
//document.forms.namedItem("eform").elements[0].value;
```

```
//2.item(index) Returns the element in <form> with the specified index (starts at 0).
```

```
//document.getElementById("eform").elements.item(0).value;
```

```
//3.namedItem(id)      Returns the element in <form> with the specified id.
```

```
//document.getElementById("eform").elements.namedItem("name").value;
```

```
function validateForm(thisForm) {  
    alert("hello");  
    with(thisForm) {  
        //The with statement extends the scope chain for a statement  
        return (isEmpty(name.value, name, "Please enter your name!", nameError)  
            && isValidEmail(email.value, email, "Enter a valid email!", emailError));  
    }  
}
```

```
function showMessageAndFocus(isValid, focusInputElm, errMsg, errElm) {
```

```
    if (!isValid) {  
        // Show errMsg on errElm, if provided.  
        if (errElm !== undefined && errElm !== null  
            && errMsg !== undefined && errMsg !== null) {  
            errElm.innerHTML = errMsg;  
        }  
        // Set focus on Input Element for correcting error, if provided.  
        if (focusInputElm !== undefined && focusInputElm !== null) {  
            focusInputElm.className = "error";  
            focusInputElm.focus();  
        }  
    } else {  
        // Clear previous error message on errElm, if provided.  
        if (errElm !== undefined && errElm !== null) {  
            errElm.innerHTML = "";  
        }  
        if (focusInputElm !== undefined && focusInputElm !== null) {  
            focusInputElm.className = "";  
        }  
    }  
}
```

```
    }  
  }  
}
```

```
/* Validate the inputValue is not empty (and not null). */
```

```
function isEmpty(inputValue, focusInputElm, errMsg, errElm) {
```

```
    var isValid = (inputValue !== null)  
        && (inputValue.trim() !== "");  
    showMessageAndFocus(isValid, focusInputElm, errMsg, errElm);  
    return isValid;  
}
```

```
/* Return true if the input value contains only digits (at least one) */
```

```
function isNumeric(inputValue, focusInputElm, errMsg, errElm) {
```

```
    var isValid = (inputValue !== null  
        && inputValue.trim().match(/^\d+$/) !== null);  
    showMessageAndFocus(isValid, focusInputElm, errMsg, errElm);  
    return isValid;  
}
```

```
/* Return true if the input value contains only letters (at least one) */
```

```
function isAlphabetic(inputValue, focusInputElm, errMsg, errElm) {
```

```
    var isValid = (inputValue !== null  
        && inputValue.trim().match(/^[a-zA-Z]+$/) !== null);  
    showMessageAndFocus(isValid, focusInputElm, errMsg, errElm);  
    return isValid;  
}
```

```
/* Return true if the input value contains only digits and letters (at least one) */
```

```
function isAlphanumeric(inputValue, focusInputElm, errMsg, errElm) {
```

```

var isValid = (inputValue !== null
    && inputValue.trim().match(/^[0-9a-zA-Z]+$/ ) !== null);
showMessageAndFocus(isValid, focusInputElm, errMsg, errElm);
return isValid;
}

/* Return true if the input length is between minLength and maxLength */
function isLengthMinMax(inputValue, minLength, maxLength, focusInputElm, errMsg, errElm) {
    var inputValue = inputValue.trim();
    var isValid = (inputValue.length >= minLength) && (inputValue.length <= maxLength);
    showMessageAndFocus(isValid, focusInputElm, errMsg, errElm);
    return isValid;
}

// Return true if the input value is a valid email address
function isValidEmail(inputValue, focusInputElm, errMsg, errElm) {
    var isValid = (inputValue !== null)
        && (inputValue.trim().match(/^[^$]+\w+[-$]+@manipal\.(edu|in)$/ ) !== null);

    showMessageAndFocus(isValid, focusInputElm, errMsg, errElm);
    return isValid;
}

/* Return true if selection is made (not default of "") in <select> input */
function isSelected(inputValue, focusInputElm, errMsg, errElm) {
    // You need to set the default value of <select>'s <option> to "".
    var isValid = (inputValue !== "");
    showMessageAndFocus(isValid, focusInputElm, errMsg, errElm);
    return isValid;
}

```

```
/* Return true if the one of the checkboxes or radio buttons is checked
```

```
* Need to check all elements of the "names" */
```

```
function isChecked(inputName, focusInputElm, errMsg, errElm) {  
    var inputElements = document.getElementsByName(inputName);  
    var isChecked = false;  
    for (var i = 0; i < inputElements.length; i++) {  
        if (inputElements[i].checked) {  
            isChecked = true; // found one element checked  
            break;  
        }  
    }  
    showMessageAndFocus(isChecked, focusInputElm, errMsg, errElm);  
    return isChecked;  
}
```

```
// Validate password, 6-8 characters of [a-zA-Z0-9_]
```

```
function isValidPassword(inputValue, focusInputElm, errMsg, errElm) {  
    var isValid = (inputValue !== null)  
        && (inputValue.trim().match(/^w{6,8}$/) !== null);  
    showMessageAndFocus(isValid, focusInputElm, errMsg, errElm);  
    return isValid;  
}
```

```
// Verify password.
```

```
function verifyPassword(pw, verifiedpw, focusInputElm, errMsg, errElm) {  
    var isTheSame = (pw === verifiedpw);  
    showMessageAndFocus(isTheSame, focusInputElm, errMsg, errElm);  
    return isTheSame;  
}
```

// The "onclick" handler for the "reset" button to clear the display

```
function clearDisplay() {  
    var elms = document.getElementsByTagName("*"); // all tags  
    for (var i = 0; i < elms.length; i++) {  
        if ((elms[i].id).match(/Error$/)) {  
            elms[i].innerHTML = "";  
        }  
        if (elms[i].className === "error") { // assume only one class  
            elms[i].className = "";  
        }  
    }  
    // Set initial focus  
    document.getElementById("name").focus();  
}
```

// CSS (**validatcss.css**)

/* for error messages */

```
.red {  
    color: red;  
}
```

/* for the error input text fields */

```
input.error {  
    border: 1px red inset;  
    padding: 2px;  
}
```

```
table {  
    border: 0;  
}
```



```
td {  
  margin: 0;  
  padding: 3px 10px 3px 3px;  
}
```