

## LAB 06: JavaScript

### Objective:

Students will acquire the ability to utilize Java Script (validation) for creating web pages.

### Lab Tasks:

#### Task 1:

Create HTML and JavaScript code for a webpage featuring a form containing an input field. The JavaScript code should incorporate event listeners for the form, particularly focusing on "focusin" (when focus is gained) and "focusout" (when focus is lost) events



#### Answer:

```
<html>
<head>
</head>
<body>
<form id="myForm">
  <input type="text" id="myInput">
</form>
<script>
var x = document.getElementById("myForm");
x.addEventListener("focusin", myFocusFunction);
x.addEventListener("focusout", myBlurFunction);

function myFocusFunction() {
if(document.getElementById("myInput").value.trim() == ""){
document.getElementById("myInput").style.backgroundColor = "";
}
}

function myBlurFunction() {
  if(document.getElementById("myInput").value.trim() == ""){
document.getElementById("myInput").style.backgroundColor = "red";
}
else{
document.getElementById("myInput").style.backgroundColor = "green";
}
}
```

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

## Task 2:

Write java script code to set “**onkeypress**” event to validate that only alphabetical characters are entered from user given Web-page Form:

Sign-Up

Name:

Username

Sign-Up

## Answer:

```
<html>  
<head>  
<link rel="stylesheet" href="css/bootstrap.min.css">  
<script src="js/jquery-3.1.1.min.js"></script>  
<script src="js/bootstrap.min.js"></script>  
<link rel="stylesheet" href="css/mystyle.css">  
<script>  
function alphabet(){  
if((event.charcode >64 && event.charcode <91) || (event.charcode >96 && event.charcode  
<123)){  
document.getElementById("myDIV").style.display = "block";  
  
}  
else{  
return true;  
}  
}  
  
</script>  
</head>  
<body class="container">  
<br/><br/><br/>  
<h2>Sign-Up</h2><br/>  
<form class="form-group">
```

```

<label>Name:</label>
<input type="text" placeholder="Username" class="form-control" id="name"
onkeypress="alphabet()" />
<span id="myDIV" style="display:none;color:red">*Enter Name</span>

</form>
<button class="btn btn-primary">Sign-Up</button>
</body>
</html>

```

### Task 3:

Write email validation javascript , html code for given web for form:

Input an email and Submit

### Answer:

```

<html lang="en">
<head>
<meta charset="utf-8">
<title>JavaScript form validation - checking email</title>
<link rel='stylesheet' href='form-style.css' type='text/css' />
</head>
<body onload='document.form1.text1.focus()>
<div class="mail">
<h2>Input an email and Submit</h2>
<form name="form1" action="#">
<ul>
<li><input type='text' name='text1' /></li>
<li>&nbsp;</li>
<li class="submit"><input type="submit" name="submit" value="Submit"
onclick="ValidateEmail(document.form1.text1)"/></li>
<li>&nbsp;</li>
</ul>
</form>
</div>

```

```
<script src="email-validation.js"></script>
</body>
</html>
```

### JavaScript:

```
function ValidateEmail(inputText)
{
var mailformat = /^\\w+([\\.-]?\\w+)*@\\w+([\\.-]?\\w+)*\\.\\w{2,3}+$/;
if(inputText.value.match(mailformat))
{
alert("Valid email address!");
document.form1.text1.focus();
return true;
}
else
{
alert("You have entered an invalid email address!");
document.form1.text1.focus();
return false;
}
}
```

### Task 4:

Write javascript , html code for given web form:

Name:  
Username

Password:  
Password

Retype Password:  
Password

Phone:  
phone number

Email:  
Email

Submit

### Answer:

#### HTML:

```
<html>
<head>
```

```

<link rel="stylesheet" href="css/bootstrap.min.css">
<script src="js/jquery-3.1.1.min.js"></script>
<script src="js/bootstrap.min.js"></script>

<link rel="stylesheet" href="css/mystyle.css">
<script src="java.js"></script>

</head>

<body class="container">
<br/><br/><br/>

<form class="form-group">
<label>Name:</label>
<input type="text" placeholder="Username" class="form-control simpleinput" id="name" />
<span id="myDIV" style="display:none;color:red">*Enter Name</span>
<br/>

<label>Password:</label>
<input type="password" placeholder="Password" class="form-control" id="pass1" />
<span id="passtext1" style="display:none;color:red">*Enter password</span>
<br/>

<label>Retype Password:</label>
<input type="password" placeholder="Password" class="form-control" id="pass2" />
<span id="passtext2" style="display:none;color:red">*Enter password</span>
<br/>

<label>Phone:</label>
<input type="text" placeholder="phone number" class="form-control" id="phone" />
<span id="phonetext" style="display:none;color:red">*Enter phone number</span>
<br/>

<label>Email:</label>
<input type="text" placeholder="Email" class="form-control" id="email" />
<span id="emailtext" style="display:none;color:red">*Enter email</span>
<br/>

<button class="btn btn-primary" type="button" onclick="myFunction()">Submit</button>
</form>

</body>
</html>

```

## JavaScript:

```

function myFunction() {
var myname = document.getElementById("name").value.trim();
var mypass1 = document.getElementById("pass1").value.trim();
var mypass2 = document.getElementById("pass2").value.trim();

```

```

var phonenumber = document.getElementById("phone").value.trim();
var myemail = document.getElementById("email").value.trim();

var x = document.getElementById("myDIV");
var mypasstext1 = document.getElementById("passtext1");
var mypasstext2 = document.getElementById("passtext2");
var myphonetext = document.getElementById("phonetext");
var myemailtext = document.getElementById("emailtext");

if(myname == ""){
    document.getElementById("name").className = "form-control newinput";
}
else{
    document.getElementById("name").className = "form-control simpleinput";
    if(!isNaN(myname)){
        alert("Enter Alphabets Only");
    }
}

if(mypass1 == ""){
    mypasstext1.style.display = "block";
}
else{
    mypasstext1.style.display = "none";
    if(mypass1.length < 6){
        alert("passwords length must be at least 6");
    }
}

if(mypass2 == ""){
    mypasstext2.style.display = "block";
}
else{
    mypasstext2.style.display = "none";
    if(mypass2.length < 6){
        alert("passwords length must be at least 6");
    }
}

if(mypass1 !== mypass2){
    alert("passwords do not match");
}

if(phonenumber == ""){
    myphonetext.style.display="block";
}

```

```

else{
myphonetext.style.display="none";
if(isNaN(phonenumber)){
alert("Enter Numeric Values Only");
}
}
if(myemail == ""){
myemailtext.style.display="block";
}
else{
myemailtext.style.display="none";
var atposition=myemail.indexOf("@");
var dotposition=myemail.lastIndexOf(".");
if (atposition<1 || dotposition<atposition+2 || dotposition+2>=myemail.length){
    alert("Please enter a valid e-mail address");
    return false;
}
}
}
}

```

## CSS.

```

.simpleinput{
background: transparent;outline: none;
border-top: none;border-left: none;border-right: none;
border-bottom:2px solid blue;
border-radius:0px;
}
.simpleinput:focus{
background: transparent;outline: none;
border-top: none;border-left: none;border-right: none;
border-bottom:2px solid blue;
border-radius:0px;
}
.simpleinput:active{
background: transparent;outline: none;
border-top: none;border-left: none;border-right: none;
border-bottom:2px solid blue;
border-radius:0px;
}
.newinput{
background: transparent;outline: none;
border-top: none;border-left: none;border-right: none;
border-bottom:2px solid red;
border-radius:0px;
}

```

```
}  
.newinput:focus{  
background: transparent;outline: none;  
border-top: none;border-left: none;border-right: none;  
border-bottom:2px solid red;  
border-radius:0px;  
}  
.newinput:active{  
background: transparent;outline: none;  
border-top: none;border-left: none;border-right: none;  
border-bottom:2px solid red;  
border-radius:0px;  
}
```