Exercise 3:

What you will learn: How to validate fields with **JavaScript** instead of **JPL**. Sometimes it is more efficient, and less costly to validate field's right in the browser instead of making a trip to the Server to execute JPL Code.

1. From the Panther editor, we will add JavaScript to the ***Login*** button and expand the property WEB OPTIONS->BROWSER OPTIONS→JavaScript. Paste the code below it to the JavaScript text window then press OK. This script will validate fields.

```
$("#logbtn").click(function() {                                    //logbtn id which is defined in html
 var uname = $("input[name='i_1_usernametxt']").val() ; //assign var to field values
 var pswd = $("input[name='i_1_passwordtxt']").val() ;
 var email = /^[\w\-\.\+]+\@[a-zA-Z0-9\.\-]+\.[a-zA-z0-9]{2,4}$/; //define values for email

 if(uname=="" && pswd=="")
 {
            alert("Please enter User and Password to login") ;
            return false;
 }
 else if(email.test(uname)) { //validate if uname has the particular values defined in var email
            return true;
 }
 else
 {
            alert("Please enter valid username & password.")
            return false;
 }
 });
```

2. Next click the ***Reset*** button and paste the code below to the JavaScript text window then press OK.

```
$("#cancelbtn").click(function() { //cancelbtn id defined in html for reset button
var uname = $("input[name='i_1_usernametxt']").val('') ;
var pswd = $("input[name='i_1_passwordtxt']").val('') ; //clear the fields
});
```

3. **REMOVE** the JPL function call behind the ***Reset*** button (VALIDATION: Control String). The JavaScript function will now execute instead of the JPL which is efficient in this scenario.

4. Next replace ***login2.html*** with ***login3.html***. ***Login3.html*** contains references to the button ids, see lines 36 and 37. Also included in the <div id.. > is code to display tooltips for each button. Save the Panther screen. Do take time to study this html file.
5. Now refresh the screen in the browser. Mouse over the ***Login*** and ***Reset*** buttons, notice the tooltip messages appear. Press the ***Login*** button without entering any data into the fields. The message box that appears is a ***JavaScript Alert message.***
6. Next enter any data into the fields and press the ***Reset*** button. Notice the JavaScript code "clears" the data without making a trip to the server. Also notice how quickly the fields are validated by JavaScript. Once the screen is submitted back to the server, then the JPL functions execute.

What you learnt in Exercise 3: How to validate fields with JavaScript.