If you would like to follow along with the hands-on workshop in your own system, complete the following steps to create a form and event that we will use for this scenario. It is recommended to set this event up in your development system.

The instructions that follow will create a Test/Assessment Event called Unit Calculation that you will be able to access for a test client in your Assessments formset member in the Client module.

Instructions:

Step 1) Go to Setup > User Tools > Form Designer > Form Designer

Open Form Family Tests and Assessments (People)

Copy form Tests and Assessments (People)

-= New Form Parameters -=

<table>
<thead>
<tr>
<th>Form Name</th>
<th>Unit Calculation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form Code</td>
<td>MY_UNIT_CALC</td>
</tr>
<tr>
<td>Form Height (px)</td>
<td></td>
</tr>
<tr>
<td>Form Width (px)</td>
<td></td>
</tr>
<tr>
<td>Form Size (%)</td>
<td></td>
</tr>
</tbody>
</table>
Step 2) Go to Setup > Event Setup > People > Events Setup

Select Event Category Test/Assessments for People

Create New Event

--- Event Definitions Information ---

--- Security for Event ---

--- Link to Event Groups ---

Or whatever role your myEvolv user account uses
2019 NY myEvolv Training Summit - JavaScript Workshop

Code Snippets

**CODE SNIPPET 1**

```javascript
var startDate = get ElementFromXML(formXML, 'actual_date');
var endDate = get ElementFromXML(formXML, 'end_date');
alert(endDate - startDate);
```

**CODE SNIPPET 2**

```javascript
var startDate = new Date(getElementFromXML(formXML, 'actual_date'));
var endDate = new Date(getElementFromXML(formXML, 'end_date'));
alert(endDate - startDate);
```

**CODE SNIPPET 3**

```javascript
var startDate = new Date(getElementFromXML(formXML, 'actual_date'));
var endDate = new Date(getElementFromXML(formXML, 'end_date'));
alert((endDate - startDate) / 1000 / 60);
```

**CODE SNIPPET 4**

```javascript
var startDate = new Date(getElementFromXML(formXML, 'actual_date'));
var endDate = new Date(getElementFromXML(formXML, 'end_date'));
diffMins = (endDate - startDate) / 1000 / 60;
var hh = diffMins / 60;
var mm = diffMins % 60;
alert(hh + ':' + mm);
```

**CODE SNIPPET 5**

```javascript
var startDate = new Date(getElementFromXML(formXML, 'actual_date'));
var endDate = new Date(getElementFromXML(formXML, 'end_date'));
diffMins = (endDate - startDate) / 1000 / 60;
var hh = Math.floor(diffMins / 60);
var mm = diffMins % 60;
if(mm < 10){
  mm = '0' + mm;
}
alert(hh + ':' + mm);
```
CODE SNIPPET 6

```javascript
var startDate = new Date(getElementFromXML(formXML, 'actual_date'));
var endDate = new Date(getElementFromXML(formXML, 'end_date'));
diffMins = (endDate - startDate) / 1000 / 60;
var hh = Math.floor(diffMins / 60);
var mm = diffMins % 60;
if(mm < 10){
    mm = '0' + mm;
}
setFormElement('duration', hh + ':' + mm);
var units;
if(diffMins < 15){
    units = 0;
} else if (diffMins >= 90){
    units = 6;
} else {
    units = Math.floor(diffMins / 15);
    partialUnits = diffMins % 15;
    if(partialUnits >= 10){
        units++;
    }
}
setFormElement('udf_units', units);
```

CODE SNIPPET 7

```javascript
var startDate = new Date(getElementFromXML(formXML, 'actual_date'));
var endDate = new Date(getElementFromXML(formXML, 'end_date'));
diffMins = (endDate - startDate) / 1000 / 60;
var hh = Math.floor(diffMins / 60);
var mm = diffMins % 60;
if(mm < 10){
    mm = '0' + mm;
}
setFormElement('duration', hh + ':' + mm);
var units;
if(diffMins < 15){
    units = 0;
} else if (diffMins >= 90){
    units = 6;
} else {
    units = Math.floor(diffMins / 15);
    partialUnits = diffMins % 15;
    if(partialUnits >= 10){
        units++;
    }
}
setFormElement('udf_units', units);
setElementFromXML(formXML, 'udf_units', units);
```