GPA Calculator
function updateRow(input) {
  if (input.value != null && input.value.length != 0) {
    var otherInputValue = null;
    var creditsNotGrade = true;
    var i = null;
    var value = null;
    if (input.name == "credits" && input.value.match(/^(\d|\.)+$)/)) {
      i = findElementIndex(input, "credits");
      otherInputValue = document.getElementsByName("grade")[i];
      creditsNotGrade = true;
      value = parseFloat(input.value);
    } else if (input.name == "grade" && input.value.match(/^[A-Fa-f][A-Fa-f+\-]{2}$/)) {
      i = findElementIndex(input, "grade");
      otherInputValue = document.getElementsByName("credits")[i];
      creditsNotGrade = false;
      value = toValue(input.value);
    } else {
      alert(input.value + " resulted in an error.");
    }
    if (otherInputValue != null && otherInputValue.value.length != 0) {
      var gradePoints = document.getElementsByName("gradepoints")[i];
      if (creditsNotGrade) {
        value *= toValue(otherInputValue.value);
      } else {
        value *= parseFloat(otherInputValue.value);
      }
    }
  }
}
gradePoints.value = value.toFixed(3);

function findElementIndex(input, name) {
  var elements = document.getElementsByName(name);
  var i;
  for (i = 0; i < elements.length; i++) {
    if (elements[i] == input) {
      break;
    }
  }
  return i;
}

function toValue(letter) {
  letter = letter.toUpperCase();
  switch(letter) {
    case "A" : return 4.00;
    case "A-" : return 3.70;
    case "B+" : return 3.30;
    case "B" : return 3.00;
    case "B-" : return 2.70;
    case "C+" : return 2.30;
    case "C" : return 2.00;
    case "C-" : return 1.70;
    default: return 1.00;
  }
}
function calcCurrentGPA(){
  var totalCredits = 0.0;
  var totalPoints = 0.0;
  var gradePoints = document.getElementsByName("gradepoints");
  var credits = document.getElementsByName("credits");
  for (var i = 0; i < credits.length; i++) {
    if(credits[i].value != "" && gradePoints[i].value != "){
      totalCredits += parseFloat(credits[i].value);
      totalPoints += parseFloat(gradePoints[i].value);
    }
  }
  return totalPoints/totalCredits;
}
-> } else {
  totalCredits += 0;
  totalPoints += 0;
  }</blockquote>
</div>

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

<p><strong>Please note that this GPA Calculator is an estimator for UNOFFICIAL use only, and is only intended to assist students in predicting cumulative GPA for future semesters.</strong></p>
To calculate your GPA for the current term only, fill in your letter grade and course credit value for up to 12 courses. Click on the Calculate Predicted Current Term GPA button. Remember that Mines GPA is calculated using credits and grades used while attending Mines.

<table>
<thead>
<tr>
<th>Number of Credits</th>
<th>Letter Grade</th>
<th>Quality Points</th>
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<tbody>
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</tbody>
</table>

```html
<input class="credits" name="credits" onchange="updateRow(this);" size="7" type="text" />
<input class="grade" name="grade" onchange="updateRow(this);" size="7" type="text" />
<input class="gradepoints" name="gradepoints" onchange="" size="7" type="text" />
```
<table>
<thead>
<tr>
<th>Credits</th>
<th>Grade</th>
<th>Grade Points</th>
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</table>

Total Number of Mines Credits

Grade Point
<table>
<thead>
<tr>
<th>Grade</th>
<th>Quality Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4.000</td>
</tr>
<tr>
<td>A-</td>
<td>3.700</td>
</tr>
<tr>
<td>B+</td>
<td>3.300</td>
</tr>
<tr>
<td>B</td>
<td>3.000</td>
</tr>
<tr>
<td>B-</td>
<td>2.700</td>
</tr>
<tr>
<td>C</td>
<td>2.300</td>
</tr>
<tr>
<td>D</td>
<td>1.700</td>
</tr>
<tr>
<td>Grade</td>
<td>Credits</td>
</tr>
<tr>
<td>-------</td>
<td>---------</td>
</tr>
<tr>
<td>C+</td>
<td>2.300</td>
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<tr>
<td>C</td>
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<tr>
<td>C-</td>
<td>1.700</td>
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<tr>
<td>D+</td>
<td>1.300</td>
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<tr>
<td>D</td>
<td>1.000</td>
</tr>
<tr>
<td>D-</td>
<td>0.700</td>
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<tr>
<td>F</td>
<td>0.000</td>
</tr>
</tbody>
</table>

To continue and calculate your Predicted Cumulative GPA: Enter the total number of credits you've earned so far at Mines (also called GPA Hours on your transcript) + your cumulative GPA from your unofficial transcript, then click the “Calculate Predicted Cumulative GPA” button.

Total number of your actual completed credits at
<table>
<thead>
<tr>
<th>Mines</th>
<th>Your Cumulative GPA prior to this semester</th>
<th>Your predicted Mines Cumulative GPA</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>&lt;input name=&quot;compCredits&quot; size=&quot;7&quot; type=&quot;text&quot; /&gt;</td>
<td>&lt;input name=&quot;prevGPA&quot; size=&quot;7&quot; type=&quot;text&quot; /&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;input name=&quot;cumGPA&quot; size=&quot;7&quot; type=&quot;text&quot; /&gt;</td>
<td>&lt;input onclick=&quot;calcPredictedGPA();&quot; type=&quot;button&quot; value=&quot;Calculate Predicted Cumulative GPA&quot; /&gt;</td>
</tr>
<tr>
<td></td>
<td>&lt;input onclick=&quot;reloadPage()&quot; type=&quot;button&quot; value=&quot;Reset Entire Form&quot; /&gt;</td>
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</tr>
</tbody>
</table>

To report errors or perceived miscalculations from use of this calculator, please email the details to registrar@mines.edu and we will review the information and return your message.