writing your own quiz

- modify “quiz.htm”
  - change the “form” line to refer to your quiz files, instead of the wmst201quiz files
  - write your own questions

- modify “quiz_results.html” - we’ll get to how shortly

modifying quiz.html

```html
<tr>
  <td valign=top height="25"><strong>1.</strong> What is HTML? </td>
</tr>
<tr>
  <td><input type=radio name=0 value=0> HyperText Markup Language</td>
</tr>
<tr>
  <td><input type=radio name=0 value=1> High Tech Manufacture L</td>
</tr>
<tr>
  <td><input type=radio name=0 value=2> …and the answers</td>
</tr>
<tr>
  <td><input type=radio name=0 value=3> </td>
</tr>
</table>
```

wmst201quiz_result.html

- the head of the HTML document contains a function, called `handleQuestion`

- for each question, `handleQuestion`
  - calculates the quiz result
  - displays the result

modifying quiz_result.html is easy...

```javascript
var answers = new Array("(unanswered)"), score = 0, correct=0;
...
correct= 4;
answers[1] = "Word";
answers[2] = "Excel";
answers[3] = "PowerPoint";
answers[4] = "Firefox";
score += handleQuestion(3, "What do you use to browse an HTML file", correct, answers);
document.writeln("<hr>")
```

the `handleQuestion` function:

- collects the data pertaining to the question
- writes out the HTML code for the question
- returns 1 if answer is correct, 0 otherwise

```javascript
function handleQuestion(question, correct, answers) {
  // code to handle question
}
```

Question 1:
- What is HTML?
The correct answer is
  - HyperText Markup Language
You answered:
  - HyperText Markup Language
Question 1: What is HTML? The correct answer is HyperText Markup Language. You answered: HyperText Markup Language.

**data used by handleQuestion**

**parameters to the function**

- the question number: `number`
- the text of the question: `text`
- the number of the correct answer: `correctAnswerNumber`
- the answers: `answers`

**part of extended URL (web address)**

- the number of the respondent’s answer: `userAnswerNumber`

**parameters to handleQuestion**

`handleQuestion(3, "What do you use to browse an HTML file", correct, answers)`

- the stuff in parentheses is the parameters to the `handleQuestion` function
- when `handleQuestion` is called with these parameters:
  - `3` becomes the value of variable `number`
  - "What do you use to browse an HTML file" becomes the value of variable `text`
  - the value of `correct` becomes the value of variable `correctAnswerNumber`

**handleQuestion function:**

Can you find the following things in the `handleQuestion` function?
- parameters passed to `handleQuestion`
- variables, variable declaration statement
- strings (in quotes)
- assignment statements
- if (control flow) statement

**grand challenges!**

design code for a quiz in which...

- ...the user can select at most one answer per question, but more than one may be correct

or:

- ...zero or more answers per question may be correct and the user must select all correct answers

or:

- ...each answer is worth between 1 and 4 points and the feedback to the user depends on the total score