COP 3813 Internet Computing

Hints for HW#3

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Two HTML Files

- In need of two html files
  - webExam.html
    - For introduction part
  - takeTest.html
    - For exam part
    - Note: This filename can be user-defined.

webExam.html

- To prevent "back" to introduction
  - Add the following statement to <head>

    javascript:window.history.forward(1);

- To take a test
  - Add a link similar to the following to <body>

     Take Test

takeTest.html (1/7)

- In need of declaring 3 arrays in <script>
  - One for questions: questions[10]
  - One for correct answers: cans[10]
  - One for user answers: uans[10]

takeTest.html (2/7)

- Some example statements for initializing arrays:
  - questions[0] = "Where is FAU Located?";
  - questions[1] = "Is FAU a state Univ?";

    . . .

  - cans[0] = "Boca Raton";
  - cans[1] = "Yes";

    . . .

- uans is initially empty.

takeTest.html (3/7)

- Using radio buttons in <body> for questions:

  - <form id = "test" action = " ">

  - 1. Where is FAU Located?"

    <input name = "q1" type = "radio" onclick = "uans[0] = 'incorrect' "/>Miami

    <input name = "q1" type = "radio" onclick = "uans[0] = 'correct' "/>Boca Raton

    <input name = "q1" type = "radio" onclick = "uans[0] = 'incorrect' "/>Tampa

    . . .

takeTest.html (4/7)

- 2. Is FAU a state university?"

  <input name = "q2" type = "radio" onclick = "uans[1] = 'correct' "/>Yes

  <input name = "q2" type = "radio" onclick = "uans[1] = 'incorrect' "/>No

  …

- Need the following to invoke grading routine

  - Use the **submit** button for it.

    <input type="submit" name="submit" value="Submit Test" onclick="toGrade()" />

takeTest.html (5/7)

- Some example statements in function toGrade() (coded in <script>)
  - To evaluate user answers

```
for (var count=0; count < 10; count++)
{
    if (uans[count] == 'correct')
        correctAns++;
    else
        incorrectAns++;
}
```

takeTest.html (6/7)

- To print out messages

```
for (var count=0; count < 10; count++)
{
    if (uans[count] == "correct")
        ;
    else  {
        document.writeln("You answered question number "
            + (count+1) + "incorrectly");
        doucument.writeln("The question was " +
            questions[count]);
        document.writeln("The correct answer is " +
            cans[count]);
    }
}
```

takeTest.html (7/7)

- To print out exam time

  var current = new Date();

  document.writeln("This exam was taken " +
      current.toLocaleString());

- Note: There are many different ways to solve this problem. You may code your program very differently from the hints given above. As long as your program works, it counts.