COEN 10
Lab 2

Lab 2 – Multiplication Test

❖ You will create a page to help kids practice the multiplication table

❖ How it works

◆ You generate two random numbers between 0 and 12 and show them on the page

◆ You read a number from the keyboard

◆ You compare the input with the answer and either show a "Good Job" page or a "You need practice" page with the correct answer.

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❖You will use html/php
◆You need two pages
  • Main page
    – You show the users
    number1 x number2 = <input box>
    submit buttom
    – The user enters the answer and submit
    – The 3 values are sent to the second page
  • Second page
    – Check the answer
      » if correct → output "Good Job!!"
      » if not correct → output the right answer
    – Have a button that sends it back to the main page.

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❖ Form

◆ Use either get or post to send info to the second page.

❖ Random numbers

$value = rand (0, 12);

→ Assign a random number between 0 and 12 to variable $value

→ You need two of those

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❖ Post Example – sending page – ex.php

```
…
<form action="ex2.php" method="POST">

    <input type= "hidden" name="number1" value="<?php echo $number1; ?>" />

    <input type= "hidden" name="number2" value="<?php echo $number2; ?>" />

    <input type= "number" name="number3" />

    <input type="submit" value="Calculate!" />

</form>
…
```

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❖ Post example– receiving page – ex2.php
  ◆ To read values received

```
…
$number1 = $_POST["number1"];
$number2 = $_POST["number2"];
$number3 = $_POST["number3"];

…
```

  ◆ To go back to the first page
```
<form method="POST" action="ex.php">
   <input type="submit" value="Try again" />
</form>
```

Lab 2 – Multiplication Test

❖ Before the lab
- ◆ Do a flowchart
  - of the algorithm you will use in the second file to check if the answer is correct
- ◆ Deliver the flowchart to the TA in the beginning of the lab

❖ When you are done
- ◆ Demo
  - Show the page behavior to the TA
- ◆ Submit
  - Print and submit the source code of the pages to the TA
  - Don't forget to put your name on it!