


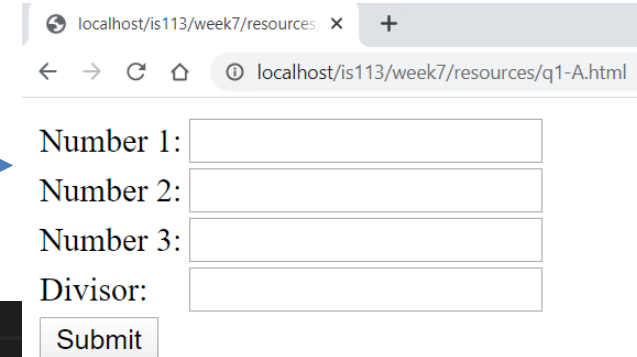
# IS113 Web Application Development 1

## Debriefing on Trial Lab Test 1 (Set A)

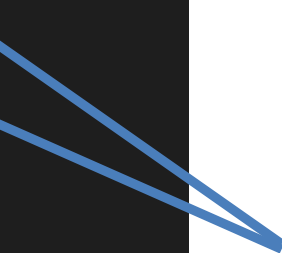
*Courtesy of LAU Yi meng*

# Question 1 – Part A

- q1-A.html is provided.
- Run it off your localhost to see the results. 
- Upon clicking the SUBMIT button, it submits to q1-A.php via HTTP POST.



```
<html>
<body>
  <table>
    <tr>
      <td>Number 1:</td>
      <td><input type='text' name='num1'></td>
    </tr>
    <tr>
      <td>Number 2:</td>
      <td><input type='text' name='num2'></td>
    </tr>
    <tr>
      <td>Number 3:</td>
      <td><input type='text' name='num3'></td>
    </tr>
    <tr>
      <td>Divisor:</td>
      <td><input type='text' name='divisor'></td>
    </tr>
    <tr>
      <td colspan='2'><input type='submit' name='check'></td>
    </tr>
  </table>
</body>
</html>
```

- 
1. Take note of the names.
  2. It is a form processing question. Missing **<form>** tags
  3. Method via **POST**.

# Question 1 – Part A

- Create function – `is_divisible_by ($num, $n)` , returning a value as **Boolean**.
- Printing out as an unordered list. Tags `<ol>`, `<li>`
- Types of checks :
  - `isset()` to prevent user from going directly into `q1-A.php`
  - Number 1,2,3 must be numeric.
  - Divisor has to be numeric.
- Question did not asked to output error messages
  - Do not need to handle in this case.

```
// Part A-2
function is_divisible_by($num, $n) {
    if ($num % $n == 0)
        return true;
    else
        return false;
    //return $num % $n == 0;
}
```

These are not specified in the question.  
You can make your own assumptions.


# Question 1 – Part A

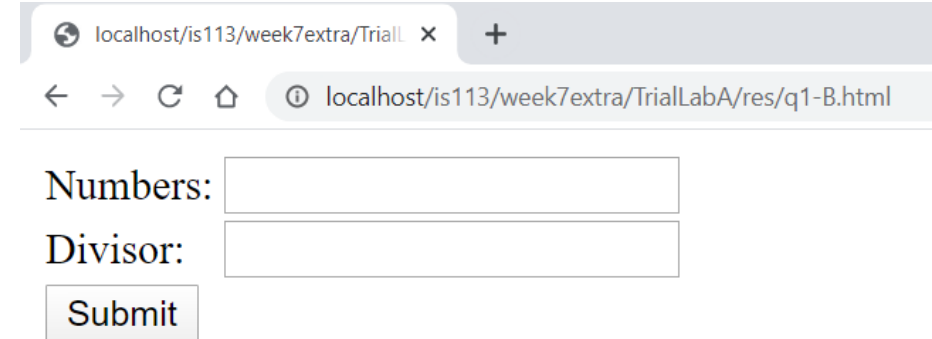
- Output:
  - Using 2 arrays :  
(1) to capture input from user, (2) to capture result – YES, NO
  - Using an associative array:  
E.g. `$result = [`
    - `2 => "YES",`
    - `5 => "NO",`
    - `6 => "YES"``]`  
Try this out on your own.
  - Or any other ways ...

```
$numbers = [];
```

```
$results = [];
```

# Question 1 – Part B

- q1-B.html is provided.
- Run it off your localhost to see the results. 
- One, or more numbers are input together in **ONE form input field** separated by **comma**.
- Upon clicking the SUBMIT button, it submits to q1-A.php via HTTP **GET**.




localhost/is113/week7extra/TrialLabA/res/q1-B.html

Numbers:

Divisor:

Submit

```
<html>
<body>
  <table>
    <tr>
      <td>Numbers:</td>
      <td><input type='text' name='numbers'></td>
    </tr>
    <tr>
      <td>Divisor:</td>
      <td><input type='text' name='divisor'></td>
    </tr>
    <tr>
      <td colspan='2'><input type='submit' name='check'></td>
    </tr>
  </table>
</body>
</html>
```

- 
1. Take note of the names
  2. It is a form processing question. Missing **<form>** tags
  3. Method via **GET**.

# Question 1 – Part B

- Create function – `is_divisible_by ($num, $n)` ,  
returning a value as **Boolean**.  
Similar from Part A.
- explode function with comma delimiter.
- Rest is similar to Part A.

```
$numbers = explode (',', $_GET['numbers']);
```

# Question 1 – Part B

- Additional handling [not part of the question].  
Based on the list of numbers provided.

localhost/is113/week7extra/TrialL x +

localhost/is113/week7extra/TrialLabA/sol/q1-B.html

Numbers:

Divisor:



localhost/is113/week7extra/TrialL x +

localhost/is113/week7extra

- 2 is divisible by 2: YES
- 5 is divisible by 2: NO
- 6 is divisible by 2: YES
- 7 is divisible by 2: NO

```
$arr_count = count ($numbers);

// check that $numbers contains all numbers
for ($i=0; $i<$arr_count; $i++){

    $value = $numbers[$i];
    if (!is_numeric($value)){
        unset($numbers[$i]);
    }
}
```

# Question 2

- All are php programs.
- Look at what codes are provided.
- Read the Sample Output to get an idea of how the programs work.

q2.php

```
<html>
<body>
  <form method='post' action='q2-display.php'>
    <input type="checkbox" value="apple" name="fruit[]">Apple
    <input type="checkbox" value="orange" name="fruit[]">Orange
    <input type="checkbox" value="pear" name="fruit[]">Pear
    <br>
    <input type='submit'>
  </form>
</body>
</html>
```

q2-one.php

```
<html>
<body>
  <?php
  >
  <form method='post' action='q2-one.php'>
    <input type="checkbox" value="apple" name="fruit[]">Apple
    <input type="checkbox" value="orange" name="fruit[]">Orange
    <input type="checkbox" value="pear" name="fruit[]">Pear
    <br>
    <input type='submit' name='send'>
  </form>
</body>
</html>
```



# Question 2 – Part A

- Start with `q2.php`
- User clicks on words, the corresponding checkboxes will be selected/unselected : `<label>`
- In `q2-display.php`
  - get values (checkboxes) from `q2.php` via `$_POST`
  - display in table format.
  - display pictures `<img>`
- Types of checks :
  - `isset()` to check if the checkbox is empty. If not prompt the message.




`q2-display.php`

```
<?php
/*
    Name:
    Email:
*/
?>
<html>
<body>
    <?php
    ?>
</body>
</html>
```

# Question 2 – Part A

- Processing of images files.

```
<html>
<body>
  <form method='post' action='q2-display.php'>
    <input type="checkbox" value="apple" name="fruit[]">Apple
    <input type="checkbox" value="orange" name="fruit[]">Orange
    <input type="checkbox" value="pear" name="fruit[]">Pear
    <br>
    <input type='submit'>
  </form>
</body>
</html>
```

Name	Type
 apple	JPG File
 orange	JPG File
 pear	JPG File

The values are the same. To dynamically print out the image, the “value” can be used.

# Question 2 – Part B

- Start with `q2-one.php`
- Self-submitting form, back to itself (`q2-one.php`)
- Read through the sample examples.
- Points to note:
  - Get values (checkboxes) via `$_POST`
  - Display in table format.
  - Display pictures `<img>`
  - Display a message “**You selected X fruits**”.

count function

## `q2-one.php`

```
<html>
<body>
  <?php
  ?>
  <form method='post' action='q2-one.php'>
    <input type="checkbox" value="apple" name="fruit[]">Apple
    <input type="checkbox" value="orange" name="fruit[]">Orange
    <input type="checkbox" value="pear" name="fruit[]">Pear
    <br>
    <input type='submit' name='send' />
  </form>
</body>
</html>
```

# Question 2 – Part B

- Types of checks :
  - [Good practice, usually via `$_GET`], if the user goes directly to the page, with partial input variables. You will not want to process it if it is loading for the first time.
    - E.g submit via `$_GET` with checkbox with data only.
  - Checkbox can be not checked. It is acceptable in this question.
  - Check if the submit button is clicked via `isset($_POST['send'])`

```
C:\wamp64\www\is113\week7extra\TrialLabA\sol\q2-one.php:7:  
array (size=1)  
    'send' => string 'Submit' (length=6)
```

# Question 3

- Working with associative array and arrays in array.
- Suggested approach:
  - Identify the pattern in the data provided.
  - Sift out the required information, assigned it to a local variable for easy processing.

# Question 3

```
$students = [  
  [  
    "name" => 'Jong Un Kim',  
    "courses" => [  
      ['IS111', 'Intro Programming', 'MON', '1000', 1],  
      ['CS102', 'Discrete Mathematics', 'TUE', '0830', 2],  
      ['EE200', 'Intro to Circuits', 'TUE', '1330', 1],  
      ['WRIT100', 'Writing and Reasoning', 'WED', '1000', 1],  
      ['LIT380', 'Intro to Korean Literature', 'FRI', '1630', 1]  
    ]  
  ],  
  [  
    "name" => 'Donald Trump',  
    "courses" => [  
      ['IS112', 'Data Management', 'TUE', '0830', 2],  
      ['WRIT100', 'Writing and Reasoning', 'WED', '1000', 1],  
      ['OBHR101', 'Leadership Team Building', 'WED', '1200', 2],  
      ['IS113', 'Web Application Development', 'THU', '1500', 2],  
      ['STAT202', 'Bayesian Logics', 'FRI', '1000', 1]  
    ]  
  ],  
  [  
    "name" => 'Hugo Chavez',  
    "courses" => [  
      ['IS111', 'Intro Programming', 'MON', '1000', 1],  
      ['IS112', 'Data Management', 'TUE', '0830', 2],  
      ['EE200', 'Intro to Circuits', 'TUE', '1330', 1],  
      ['OBHR101', 'Leadership Team Building', 'WED', '1200', 2],  
      ['STAT202', 'Bayesian Logics', 'FRI', '1500', 1]  
    ]  
  ]  
];
```

Name: Jong Un Kim ▼

Data for the dropdown list

# Question 3

```

$students = [
  [
    "name" => 'Jong Un Kim',
    "courses" => [
      ['IS111', 'Intro Programming', 'MON', '1000', 1],
      ['CS102', 'Discrete Mathematics', 'TUE', '0830', 2],
      ['EE200', 'Intro to Circuits', 'TUE', '1330', 1],
      ['WRIT100', 'Writing and Reasoning', 'WED', '1000', 1],
      ['LIT380', 'Intro to Korean Literature', 'FRI', '1630', 1]
    ]
  ],
  [
    "name" => 'Donald Trump',
    "courses" => [
      ['IS112', 'Data Management', 'TUE', '0830', 2],
      ['WRIT100', 'Writing and Reasoning', 'WED', '1000', 1],
      ['OBHR101', 'Leadership Team Building', 'WED', '1200', 2],
      ['IS113', 'Web Application Development', 'THU', '1500', 2],
      ['STAT202', 'Bayesian Logics', 'FRI', '1000', 1]
    ]
  ],
  [
    "name" => 'Hugo Chavez',
    "courses" => [
      ['IS111', 'Intro Programming', 'MON', '1000', 1],
      ['IS112', 'Data Management', 'TUE', '0830', 2],
      ['EE200', 'Intro to Circuits', 'TUE', '1330', 1],
      ['OBHR101', 'Leadership Team Building', 'WED', '1200', 2],
      ['STAT202', 'Bayesian Logics', 'FRI', '1500', 1]
    ]
  ]
];
  
```

 Name:  

	08:30am - 10:00am	10:00am - 11:30am	12:00nn - 1:30pm	1:30pm - 3:00pm	3:00pm - 4:30pm	4:30pm - 6:00pm
MON		IS111 Intro Programming				
TUE	CS102 Discrete Mathematics			EE200 Intro to Circuits		
WED		WRIT100 Writing and Reasoning				
THU						
FRI						LIT380 Intro to Korean Literature