

IS113 Web Application Development 1

Lab Test 1 Briefing

G4/G5

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2020-21 Term 2 Lab Test 1



- Date: 2-MARCH-2021 (Tuesday) → Week 8
- **Time**: 1:30 PM 3:00 PM *(90 minutes)*
- 20% grade component
- Individual assessment

Conducted ON CAMPUS in a Seminar Room

G4	School of Economics/School of Social Sciences	SOE/SOSS Seminar Room 3-5
G5	School of Economics/School of Social Sciences	SOE/SOSS Seminar Room 3-6

NO make-up

If you miss Lab Test 1, you will have to file for "I" (incomplete) grade (if you meet attendance and grade criteria).

Before Lab Test



- Arrive 10 minutes prior to the official Lab Test start time
- Ensure WAMP starts successfully
- Ensure your PHP manual is installed for offline use
 - Go to: https://devdocs.io
 - Add HTML, PHP
 - Download for offline use
- NO WI-FI allowed during the Lab Test
- <u>NO</u> hardcopy/printed notes are allowed
- ONLY softcopy notes/references are allowed
- Bring laptop charger
- Use mouse (for efficiency) if your laptop's touchpad slows you down

10 minutes prior to Lab Test Start



- You need to be seated inside the test venue.
- You need to have your laptop set up (charger connected) on your desk.
- Start WAMP
- Open In Cognito Chrome Web Browser
 - Go to http://localhost/ and verify that your web server is up and running
- Open PHP Manual (devdocs.io)
- Put away everything except laptop, water bottle (if any), mouse (if any)
 - Other items allowed: tissues, mask (you must wear it), spectacles/glasses

5 minutes prior to Lab Test Start



- Download Lab Test Zip File from eLearn
 - We will inform you the directory on test day
- The zip file is password-protected
 - We will release the password on test day
 - Upon release, you must open the zip file and place the files in your local WAMP's webroot
- TURN OFF Wi-Fi on your laptop
 - OR, switch to Airplane Mode

E.g. Trial Lab Test Set A

```
www ---
|-- LT1
|--resources
|-- apple.jpg
|-- orange.jpg
|-- pear.jpg
|-- q1-A.html
|-- q1-A.php
|-- q1-B.html
|-- q1-B.php
...
```

5 minutes prior to Lab Test Start



You will receive Lab Test Script

Read the General Instructions on Page 1

• Check if you have all pages on the Test Script

- Answers written on the Test Script will NOT be graded
 - Only the digital submission (e.g. source code files) will be graded.

@1:30 PM, Lab Test Officially Starts



- You are NOT allowed to communicate with other students
 - No written/verbal communication (offline/digital)
 - No gestures/signaling
- You will be reminded:
 - @1:30 PM → Lab Test starts now
 - @2:30 PM \rightarrow 30 minutes left
 - @2:55 PM → 5 minutes left
 - @3:00 PM → Lab Test is over now

During Lab Test, annotate files



For **ALL Files** where you write your code:

Write your name and email ID

<!--

Name: Jong Un Kim

Email: jongun.kim.2020

-->

```
k?php
/*
Name:
Email:
*/
?
```



E.g. Trial Lab Test Set A

Question 1 (Difficulty Level: */*)



Question Difficulty levels

Given:

- q1-A.html
- q1-A.php
- q1-B.html
- q1-B.php



Files to be used in this question.

Some files are noted with

(DO NOT MODIFY THIS FILE)

It means that the content of the file cannot be changed.

Do NOT modify such files! You will be penalized!

Part A (5 marks) - Difficulty Level (*)



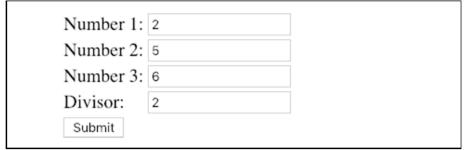
Difficulty level for each part



E.g. Trial Lab Test Set A

Part A (5 marks) - Difficulty Level (*)

1. Update q1-A. html to include a form. The page displays as follows:



Note: "2", "5", "6" and "2" (divisor) are values entered by the user.

Upon clicking the SUBMIT button, it submits to q1-A.php via HTTP POST.



Modify ONLY the files you are instructed to do so.

Function name and parameters must be exactly same as stated in the question.

e.g. Below function signature will be marked WRONG!
IS_Divisible_By (\$num, \$n1) // WRONG



- 2. Implement a function called is_divisible_by (\$num, \$n) in q1-A.php The function returns true if \$num is divisible by \$n, false otherwise.
- 3. Use the function **is_divisible bv(\$num**, **\$n)** to produce the following result when the user submits the values shown above through **q1-A.html**:
 - 2 is divisible by 2: YES
 - 5 is divisible by 2: NO
 - 6 is divisible by 2: YES



Read all questions carefully

In this case, form is inside q1-A.html (#1). When press SUBMIT button, user is taken to q1-A.php, which displays the results (#3).

HINT: Explore the use of HTML unordered list



E.g. Trial Lab Test Set A

```
// $students is an Array of:
     Associative Arrays, where each Associative Array contains:
          key (name) => value (string)
         key (courses) => value (Array of Arrays)
$students = [
                 => '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]
                 => '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]
```

In some questions, variables may be given to you.

DO NOT MODIFY THEM unless we explicitly state that you're allowed to do so!



E.g. Trial Lab Test Set A

```
// INPUT : $students Array
   // OUTPUT : Return an Array of student names (String)
   function getStudentNames($students) {
                                                  Your code goes after the line
       $arr = [];
                                                  "// YOUR CODE GOES HERE"
       // Part A
       // YOUR CODE GOES HERE
                                                  e.g.
                                                  function getStudentNames($students){
                                                      $arr = [ ] ;
                                                      // Part A
                                                      // YOUR CODE GOES HERE
                                                                                            Do not change
                                                                                            the function
                                                                                            signature!
                                                       $arr[] = $students['name'];
School of
Information Systems
```



```
E.g. Trial Lab Test Set A
<html>
<body>
    <form action='q3.php' method='POST'>
        Name:
        <select name='student_name'>
            <?php
                // Part A
                // YOUR CODE GOES HERE
                $student_names = getStudentNames($students); // DO NOT MODIFY THIS LINE
                 YOUR CODE CONTINUES HERE
            ?>
        </select>
        <input type='submit' value='Show Timetable' />
    </form>
```

Codes must be after this line and before ?>

Do not change this line of code

Lab Test *Ends*



Check that:

At the top of all files that you have edited

```
<!--
Name: Jong Un Kim
Email: jongun.kim.2020
-->
```

Zip up all files into:

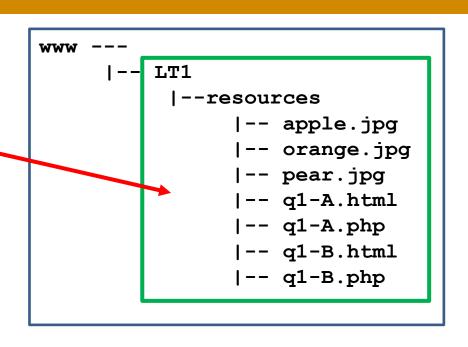
```
<YOUR_SMU_EMAIL_ID>.zip
```

E.g. jongun.kim.2020.zip

Lab Test *Ends* (Step 1)



- Zip the entire LT1 folder (green box) into:
 - jongun.kim.2020.zip
 - where jongun.kim.2020 is your SMU Email ID
- Warning :
 - Do NOT use other compression formats (.gz, .tar, .rar)
 - If you don't use zip format, this will attract 10% penalty.
 - Name the zip file STRICTLY as instructed
 - If not, this will attract 10% penalty.
- Verify your zip file
 - Try **un-zipping** your zip file and see the content. **ENSURE** your zip file have ALL files.
 - If you miss any files in your submission, we will not accept late submissions of any missing files.
 Grading will be conducted on your originally submitted zip file.



Lab Test *Ends* (Step 2)



- TURN ON WI-FI on your laptop
- Submit zip file into eLearn → Assignments → Lab Test 1
 - Double/triple confirm that your submission was successful before you leave SR.
 - We will NOT accept late submissions.