College of Engineering, Construction & Living Sciences
Bachelor of Information Technology
IN607: Introductory Application Development Concepts
Level 6, Credits 15

Practical 01: PHP Basics

Assessment Overview

In this assessment, you will solve five coding problems using **PHP** in **Repl.it**.

Learning Outcomes

At the successful completion of this course, learners will be able to:

1. Design & build usable, secure & attractive applications with dynamic database functionality following an appropriate software development methodology.

Assessment Table

Assessment Activity	Weighting	Learning Outcomes	Assessment Grading Scheme	Completion Requirements
Practical	20%	1	CRA	Cumulative
Project	80%	1	CRA	Cumulative

Conditions of Assessment

You will complete this assessment during your learner managed time, however, there will be availability during the teaching sessions to discuss the requirements & your progress of this assessment.

Pass Criteria

This assessment is criterion-referenced (CRA) with a cumulative pass mark of **50%** over all assessments in **IN607: Introductory Application Development Concepts**.

Authenticity

All parts of your submitted assessment must be completely your work & any references must be cited appropriately including, externally-sourced graphic elements. Provide your references in a **README.md** file. All media must be royalty free (or legally purchased) for educational use. Failure to do this will result in a mark of **zero** for this assessment.

Policy on Submissions, Extensions, Resubmissions & Resits

The school's process concerning submissions, extensions, resubmissions & resits complies with **Otago Polytechnic** policies. Learners can view policies on the **Otago Polytechnic** website located at https://www.op.ac.nz/about-us/governance-and-management/policies.

Submissions

You must submit all program files via **GitHub Classroom**. Here is the URL to the repository you will use for your submission – .

Instructions - Learning Outcomes 2, 3

Problem 1:

Declare two variables called name & age with the values John & Doe. Use the two variables to display the expected output.

```
<?php
// Write your solution here

// Expected output:
// Hello my name is John & I am 55 years old.
?>
```

Problem 2:

Calculate the sum of the given integers & display the expected output.

```
<?php
$x = 1957452;
$y = 2975635;
// Write your solution here

// Expected output:
// The sum of 1957452 & 2975635 is 4933087
?>
```

Problem 3:

Calculate the average of the given double array & display the expected output.

```
<?php
$numbers = array(45.3, 67.5, -45.6, 20.34, -33.0, 45.6)
// Write your solution here

// Expected output:
// Average: 16.69
```

```
  ?>
}
```

Problem 4:

Create a function called **fizzBuzz** which has an **Int** parameter called **num**. If **num** is a multiple of three, return **Fizz**, if **num** is a multiple of five, return **Buzz** & if **num** is a multiple of three & five, return **FizzBuzz**. Call the **fizzBuzz** function in the for loop to display the expected output.

```
<?php
// Write your fizzBuzz function here

for ($i = 1; $i <= 15; $i+=2) {
  // Write your solution here
}

// Expected output:
// 1
// Fizz
// Buzz
// 7
// Fizz
// 11
// 13
// FizzBuzz
?>
```

Problem 5:

You have been given an array of floats or doubles. Display **only** the odd numbers in the array. Sort by lowest to highest.

```
<?php
$numbers = [21, 19, 68, 55, 42, 12]
// Write your solution here

// Expected output:
// 19
// 21,
// 55
?>
```