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

In-Class Activity: PHP Basics 1 Answers

Problem 1:

```
<?php
    $name = "John";
    $age = 55;
    echo "Hello my name is $name & I am $age years old.";
?>
```

Problem 2:

```
<?php
    $x = 1957452;
    $y = 2975635;
    $sum = $x + $y;
    echo "The sum of $x & $y is $sum";
?>
```

Problem 3:

```
<?php
    $numbers = array(45.3, 67.5, -45.6, 20.34, -33.0, 45.6);
    $average = array_sum($numbers) / count($numbers);
    echo "Average: $average";
?>
```

Problem 4:

```
<?php
    function fizzBuzz($num) {
        if ($num % 15 == 0) {
            return "FizzBuzz";
        } elseif ($num % 3 == 0) {
```

```
            return "Fizz";
        } elseif ($num % 5 == 0) {
            return "Buzz";
        }
        return $num;
    }

    for ($i = 1; $i <= 15; $i += 2) {
        echo fizzBuzz($i) . "<br>";
    }
?>
```

Problem 5:

```
<?php
    $numbers = array(21, 19, 68, 55, 42, 12);
    sort($number);
    foreach ($numbers as $num) {
        if ($num % 2 != 0) {
            echo $num . "<br>";
        }
    }
?>
```

Problem 6:

```
<?php
    function is_anagram($string_one, $string_two) {
        if (count_chars($string_one, 1) == count_chars($string_two, 1)) {
            echo "true";
        } else {
            return "false";
        }
    }

    echo is_anagram("elvis", "lives") . "<br>";
    echo is_anagram("cat", "sat");
?>
```

Problem 7:

```
<?php
    function convert($hours, $mins) {
        $hours = $hours * 3600;
        $mins = $mins * 60;
        return $mins + $hours;
    }

    echo convert(1, 3);
?>
```

Problem 8:

Write a function called **palindrome** which accepts a single parameter called **string**. In the function block, determine whether or not **string** is a palindrome. The function should return a **boolean**.

```php
<?php
    function palindrome($string) {
        $str = preg_replace('/\W/i', '', strtolower($string));
        if (strrev($str) == $str) {
            return "true";
        } else {
            return "false";
        }
    }

    echo palindrome("A man, a plan, a canal - Panama") . "<br>";
    echo palindrome("Hello, World!");
?>
```

Problem 9:

Write a function called **is_five_letters** which accepts an **array** of **strings**. In the function block, return all words that are exactly **five** letters.

```php
<?php
    function is_five_letters ($string) {
        for($i = 0; $i < count($string); $i++) {
            if(strlen($string[$i]) == 5) {
                echo $string[$i];
            }
        }
    }

    is_five_letters(["car", "bike", "truck"]);
?>
```

Problem 10:

Write a function that accepts an **integer**. If the **integer** is prime, return **true**, otherwise return **false**.

```php
<?php
    function is_prime($prime){
        for($p = 2; $p < $prime; $p++) {
            if($prime % $p == 0) {
                return "false";
            }

            if($p >= sqrt($prime)) {
                return "true";
            }
        }
    }

    echo is_prime(11);
    echo is_prime(18);
?>
```