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IT 207 DL2

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Lab Assignment 1

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<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"

"http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">

<head>

<title>Lab Assignment 1 - Final Grade</title>

<link rel="stylesheet" href="Style.css" type="text/css"/>

<body>

<div class="final">

<?php

function calculatePercentage($a, $b) {

($a == NO\_COMPLETION && $b == 0) ? $result = 0 : $result = (($a / $b) \* PERCENTAGE);

return $result;

}

function calculateFinalPercentage($a, $b) {

($a == NO\_COMPLETION && $b == 0) ? $result = 0 : $result = ($a \* ($b/PERCENTAGE));

return $result;

}

function calculateLetterGrade($a) {

$letterGrades = array("A+", "A", "B+", "B", "C+", "C", "D", "F");

/\*

Decision Structures should not be used

if ($a >= 95) {

return $letterGrades[0];

} else if ($a >= 90 && $a < 95){

return $letterGrades[1];

} else if ($a >= 85 && $a < 90){

return $letterGrades[2];

} else if ($a >= 80 && $a < 85){

return $letterGrades[3];

} else if ($a >= 75 && $a < 80){

return $letterGrades[4];

} else if ($a >= 70 && $a < 75){

return $letterGrades[5];

} else if ($a >= 60 && $a < 70){

return $letterGrades[6];

} else {

return $letterGrades[7];

}

\*/

($a >= 95) ? $letterGrade = $letterGrades[0] : null;

//If false value is assigned to Null, do not do anything and carry on to the next statement.

($a >= 90 && $a < 95) ? $letterGrade = $letterGrades[1] : null;

($a >= 85 && $a < 90) ? $letterGrade = $letterGrades[2] : null;

($a >= 80 && $a < 85) ? $letterGrade = $letterGrades[3] : null;

($a >= 75 && $a < 80) ? $letterGrade = $letterGrades[4] : null;

($a >= 70 && $a < 75) ? $letterGrade = $letterGrades[5] : null;

($a >= 60 && $a < 70) ? $letterGrade = $letterGrades[6] : null;

($a < 60) ? $letterGrade = $letterGrades[7] : null;

return $letterGrade;

}

define("PERCENTAGE", 100);

define("NO\_COMPLETION", 0);

/\* Participation

Range of the score: 0 - 50

Maximum Score: 50

Weighted grade in percentage: 5

\*/

$earnedParticipation = $\_POST['earnedParticipation'];

$maxParticipation = $\_POST['maxParticipation'];

$weightParticipation = $\_POST['weightParticipation'];

$participationPercentage = calculatePercentage($earnedParticipation, $maxParticipation);

$finalParticipation = calculateFinalPercentage($participationPercentage, $weightParticipation);

echo "<p>You eanred a ", $participationPercentage, "&#37; for Participation, with a weighted value of ", '<a class = "grade">', $finalParticipation, '</a>', "&#37. <p/>";

/\* Quizzes

Range of the score: 0 - 80

Maximum Score: 80

Weighted grade in percentage: 40

\*/

$earnedQuiz = $\_POST['earnedQuiz'];

$maxQuiz = $\_POST['maxQuiz'];

$weightQuiz = $\_POST['weightQuiz'];

$quizzesPercentage = calculatePercentage($earnedQuiz, $maxQuiz);

$finalQuizzes = calculateFinalPercentage($quizzesPercentage, $weightQuiz);

echo "<p>You eanred a ", $quizzesPercentage, "&#37; for Quizzes, with a weighted value of ", '<a class = "grade">', $finalQuizzes, '</a>', "&#37. <p/>";

/\* Lab Assignment

Range of the score: 0 - 130

Maximum Score: 130

Weighted grade in percentage: 10

\*/

$earnedLab = $\_POST['earnedLab'];

$maxLab = $\_POST['maxLab'];

$weightLab = $\_POST['weightLab'];

$labAssignmentPercentage = calculatePercentage($earnedLab, $maxLab);

$finalLabAssignment = calculateFinalPercentage($labAssignmentPercentage, $weightLab);

echo "<p>You eanred a ", $labAssignmentPercentage, "&#37; for Lab Assignment, with a weighted value of ", '<a class = "grade">', $finalLabAssignment, '</a>', "&#37. <p/>";

/\* Practica

Range of the score: 0 - 70

Maximum Score: 70

Weighted grade: 45

\*/

$earnedPracticum = $\_POST['earnedPracticum'];

$maxPracticum = $\_POST['maxPracticum'];

$weightPracticum = $\_POST['weightPracticum'];

$practicaPercentage = calculatePercentage($earnedPracticum, $maxPracticum);

$finalPractica = calculateFinalPercentage($practicaPercentage, $weightPracticum);

echo "<p>You eanred a ", $practicaPercentage, "&#37; for Practica, with a weighted value of ", '<a class = "grade">', $finalPractica, '</a>', "&#37. <p/>";

/\* Final Grade Calculation \*/

$final = $finalParticipation + $finalQuizzes + $finalLabAssignment + $finalPractica;

$letterGrade = calculateLetterGrade($final);

echo '<p class="finalGrade">Your Final Grade is a ', $final, '</a>', "&#37, which is ", '<a class = "grade">', $letterGrade, '</a>', ".<p/><br/>";

?>

</div>

</body>