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CIS 160 – 01

October 10, 2015

Homework 4 – Grades

**Problem:** Theproblem that exists is thatstudents don’t know what their grade in class. They have an overall grade for each sub-section of assignments (exams, homework, classwork, etc.) but they don’t know their grand total percentage and/or their letter grade that they have in their class.

**Solution:** The solution is that the program that will be created will ask and accept user input of each sub-section of assignments. Then perform the math equation: Grade = Earned Points/Total Points \* 100. The program will output a percentage. This percentage will be associated with a Letter Grade. **0-59% = F, 60-69% = D, 70-79% = C, 80-89% = B, 90-100% = A.**

**Pseudocode:**

Start

**Print**: This Program will ask for your current grades of your assignments, calculate the average, and print out your Percentage, and current letter grade.

**Print**: Please enter your current grade for HW

**Scan:** save under hwGrade, totalHWGrade

**Print**: Please enter your current grade for Labs

**Scan:** save under labGrade, totalLabGrade

**Print**: Please enter your current grade for Quiz

**Scan:** save under quizGrade, totalQuizGrade

**Print**: Please enter your current grade for Exam

**Scan:** save under examGrade, totalExamGrade

**Print**: Please enter your current grade for Finals

**Scan:** save under finalsGrade, totalFinalsGrade

**Scan:** save earned points under earnedPoints and amount that can be earned under totalPoints

**Calculate**: avgGrade = earnedPoints/TotalPoints\*100

**Calculate**: weightedGrade = .3(homework) + .15(labs) + .2(Quiz) + .2(Exams) + .15(Finals)

**Print**: “Your grade is: X which is the letter grade Y”

Stop