**CSC 160 Design Document**

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Project Name: Lab 3 page 196 problem number 8

Use this form as an outline to design and document your assignment. This document may take many pages for more complex programs.

User Story (1 or more):

Form: As a member of the computer club I want a program that will compute the amount of money our clubs receives from proceeds from the granola bar sale we will have. We need computer club members be able to enter the number of cases sold and sales price per bar. Each case will contain 12 bars and we purchase each case for $5.00. Our club is required to give 10%of our earnings to the student government.

Algorithms (calculations in your programs): Number of cases sold \* 12 = Number of bars sold

Number of bars sold \* price of bar = total earned from sale

Total earned from sale – (Number of cases sold \* $5.00) = amount earned after taking out how much we paid per case (totalEarnings)

totalEarnings \* (0.10) = How much the student government earns (stuGovEarns)

totalEarnings - stuGovEarns = total gross earnings for computer club

Program data needs (what data will you have to store and the type):

Number of cases sold (numberCasesSold)

price of bar (barPrice)

Pseudo Code (your steps to get to the program outcome in English):

Welcome screen for the computer club member user.

Ask how many cases of granola bars were sold.

Display the number of actual bars sold

Then ask at what price was each bar sold.

Display how much money the club member should currently have after accounting for the cost per case.

Then output how much the student government is owed.

Then out put how much the computer club has made after the student government tax.

Class Diagrams (if designing after chapter 4):