# CSD 1133 – Assignment 01

Using pseudo code examples from Chapter 01 (i.e. Example 1.14, pg. 57) as a guide write pseudocode to solve the following problems. Please type your submissions and use **blue** text for any variable names. The final document should be uploaded to the Assignment 01 drobox in PDF format.

---

Marks will be deducted from submissions if:
- Variable names are not valid and/or meaningful
- Prompts for input are not used
- Variables are not DECLARED with proper TYPE prior to their use
- Output is not annotated
- Incorrect/Incomplete output is produced
- Input, Write, Set, Declare keywords are improperly utilized

---

## Question 01:

Write a program that computes the value of a bag of coins. Assume coins are the currently circulated set of Canadian coins: nickels, dimes, quarters, loonies, toonies. **The program takes the <u>number</u> of each type of coin as input.**

The output should be similar to:
Nickles Total: $0.85
Dimes Total: $0.90
Quarters Total: $7.25
Loonies Total: $12
Toonies Total: $36
All Coins Total: $57.00

## Question 02:

Write a program that calculates the cost to paint a SQUARE room. The program should ask for the height and width of the walls in meters. Assume one can of paint can cover 50m$^2$ and costs $32.50. You can assume the existence of a **CEIL()** function that rounds up to the nearest integer.

The output should be similar to:
Wall Width: 12m
Wall Height: 4m
Room Dimensions: 192 square meters
Cans of Paint: 4
Total Cost: $130.00

Question 03:

Write a program that asks a user to enter a 4.0 grade for each of their courses this term. You can assume the student is in first term CSAC taking the following courses listed below. Produce the report card for the end of the term in the format listed below.

| Course Code | Weighting/Credits |
|---|---|
| CSD-1113 | 3.0 |
| CSD-1133 | 3.0 |
| CSD-1233 | 3.0 |
| CSD-2206 | 6.0 |
| CSD-3423 | 3.0 |

The output should be similar to:
Name: Aaron Sarson
C Number: C1234567

CSD-1113: 3.7 x 3.0 = 11.1
CSD-1133: 4.0 x 3.0 = 12.0
CSD-1233: 3.2 x 3.0 = 9.6
CSD-2206: 3.0 x 6.0 = 18.0
CSD-3423: 3.0 x 4.0 = 12.0

Total Sum = 62.7
Total Credits Earned = 19.0
Average = 3.3

Question 04:

Write a program that generates a thank-you card for those who bought you a wedding gift. The program should take in the bride and groom's first name, the name of the gift, and the individual who purchased the gift. **Hint:** The words in blue should be stored as variables.

The output should be similar to:

Dear Tracy Zane,

Thank you for attending our wedding and for the wonderful juicer! Samantha and I are looking forward to using it as we start our new life together.

Kind regards,

James