CSE 1321 Fall 2019 – Pseudocode Submission Template

Step 1: Read the Problem-Solving Guide thoroughly. First, you have to understand the process. You must use this method to write the pseudocode for assignment 1 - pseudocode.

Step 2: Complete pseudocode part of your assignments based on the guide, use the following template to write your answers:

**Problem Statement:**

Write a pseudocode algorithm that asks the user for their

grades in CSE 1321, along with their attendance, then calculates their final grade.

Note, perfect attendance rounds up your final grade by 1.5 points – otherwise, it’s a

fraction out of 30. The tests and quiz average are worth 20% each.

**Solution Plan:**

1. CREATE int variables “t1”, “t2”, “t3”, “t4”, “t5”, “avgQ”, “attendance” to be used to store user input

2. PRINT "Enter your grade for Test 1: "

3. READ value from user and store in “t1” variable

4. PRINT "Enter your grade for Test 2: "

5. READ value from user and store in “t2” variable

6. PRINT "Enter your grade for Test 3: "

7. READ value from user and store in “t3” variable

8. PRINT "Enter your grade for Test 4: "

9. READ value from user and store in “t4” variable

10. PRINT “Enter your average quiz grade: "

11. READ value from user and store in “avgQ” variable

12. PRINT “Enter the number of times you attended class (max 30): "

13. READ value from user and store in “attendance” variable

14. CREATE float variables “before”, “extra”, “after” to store calculations

15. STORE (t1 + t2 + t3 + t4 + avgQ) / 5 in “before”

16. STORE attendance / 30 \* 1.5 in “extra”

17. STORE before + extra in “after”

16. PRINT "Your average before attendance is “ + before + ". You receive an additional " + extra + " points for attendance. Final grade is " + after “.

**Execution:**

1. Create variable to store user input

2. Ask user for test grades, average quiz grade, and attendance count and store into respective variables

3. Create float variables for calculation  
3. Calculate before grade, extra credit, and after credit grade and store in respective variables

4. Display the results

**Evaluation:**

The program works as expected but problems may occur if values are not a number.

Step 3: Complete the evaluation below:

Q1: Did the pseudocode exercise help you to understand the requirements and solve the problem faster?

* Yes
* No
* Other

Q2: What did you like about this pseudocode guide and the iterative method of solving problems?

Your Response: I learn more about computer science principles.

Q3: What can be improved about this pseudocode guide?

Your response: More documentation on pseudocode writing.