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CSC500

Module 5 Critical Thinking

**PART 1**

Psuedocode:

Initialize total rain volume = 0

Define number of months in year = 12

Get user input on how many years to collect rainfall data = total years

Outer loop:

For every year in range from zero to years defined by user

Print “Year XX”

For every month from 0 to months in year:

Get monthly rainfall from user (float)

Update total rain volume = total rainfall + monthly rainfall

Compute total months (for averaging) = months in year \* total years

Average rain = total rainfall/total months

Print out results

“Number of months we collected data for”

“Total Rainfall during those months”

“Average rainfall”

Actual Code:

A screenshot of a computer program

Description automatically generated

Screenshot of code execution

A screenshot of a computer

Description automatically generated

**PART 2**

Pseudocode:

Define dictionary for books purchased and points awarded

\*Note – handle the values that are not defined in the dictionary to allow for a smooth point accumulation (no zero values above 1).

Define if statement that gives 60 points to any purchase of 8 books or more

Else statement below this if retrieves values from dictionary with 0 as default

Print statement with number of books purchased

Print statement with points awarded

Actual Code:

A screenshot of a computer program

Description automatically generated

Screenshot of code execution

A screenshot of a computer program

Description automatically generated