1. You own a small bookstore and need to know the average number of books being sold per month. Use pseudocode to develop an algorithm to solve the problem.

What outputs are requested? Average number of books

What inputs are available? Books sales for total year

What processes is required? Dividing total book sales by 12 and displaying result

Varibles:

totalBook = numeric

avgBook = numeric

// Program name: Monthly Book Sale Calculator

// Purpose: Retrieve average monthly sale of books

// Author: Eric Phu

// Date last modified: 28-Dec-2019

Start

//Declare variables

Declare Numeric totalBook

Declare Numeric avgBook

// Get input from user

Display “Enter annual book sales”

Input totalBook

// Calculating average

avgBook = totalBook/12

// Displays average monthly book sales

Display “The average amount of books sold per month were: “ + avgBook

Stop

1. Using pseudocode, write an algorithm that calculates the final price of an item after deducting sales tax and discounts.

What outputs are requested? Final price of an item

What inputs are available? Item price, sales tax, and discounts.

What process is required? Multiply item price by (1+sales tax) and (1-discount)

Variables:

Numeric: Item Price

Numeric: discount

Constant: sale tax

// Program name: Final price calculator

//Purpose: Calculate final price

//Author: Eric Phu

// Date last modified: 28-Dec-2019

Start

// Declare Variables

Declare Numeric itemPrice

Declare Numeric discount

Declare Numeric finalPrice

Declare Constant SALES\_TAX = .0625 // Sales tax for CT

//Get required inputs from users

Display “Enter item price”

Input itemPrice

Display “Enter discount price (ex. For 20% discount enter 20)

Input discount

//Calculation

discount = discount/ 100

finalPrice = itemPrice \* (1- discount)\*(1 + SALES\_TAX)

//Display final price

Display “Your Final price is “ + finalPrice

Stop