Chapter 2 – Page 79 - #4

**A customer in a store is purchasing three items. Design a program that asks for the price of each item, and then displays the subtotal of the sale, the amount of sales tax, and the total. Assume the sales tax is 6 percent and all items purchased are taxable.**

# **Algorithm**

1. Ask for the price of each item
2. Display the subtotal of the sale
3. Display the amount of the sales tax
4. Display the total

# IPO Diagram

|  |  |  |
| --- | --- | --- |
| **Input** | **Process** | **Output** |
| item1, item2, item3 | Set subtotal = item1 + item2 + item3  Set salesTax = subtotal \* 6%  Set total = subtotal + salesTax | Display subtotal  Display salesTax  Display total |

# Pseudocode

// Program: Ch2-P79-#4

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// Course: iTechPM

void main ()

{

Display "Please enter the price of the first item: ";

Input item1;

Display "Please enter the price of the second item: ";

Input item2;

Display "Please enter the price of the third item: ";

Input item3;

Set subtotal = item1 + item2 + item3;

Set salesTax = subtotal \* 0.06;

Set total = subtotal + salesTax;

Display "The subtotal is ", subtotal, " and the sales tax is ", salesTax;

Display "The total is $", total;

}

# Flowchart

