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Homework # 1 – Sales Tax

**Problem:** The problem that has surfaced is that when one receives their total, Sales tax is not included. In order to fix this issue, I will accept the subtotal amount, I will accept the current tax rate. Once these two pieces have been provided by the user, the program will calculate the final grand total with the sales tax included in the cost.

**Solution:** I will accept the subtotal amount. Once I have received an input from the user, I will ask for the current tax rate in their area. Once, received, the program will multiply them together (ST \* TR = Sub Total and Tax Rate) to output the sales tax. Then take the Sales tax amount and add it to the Sub Total to output the Grand Total to the user.

**Flow Chart**

Stop

Sales Tax: xxx.xx

Grand Total: xxx.xx

Calculate Grand total:

grandTotal = subTotal + salesTax

Calculate Sales Tax:

salesTax = subTotal \* taxRate

Ask user to enter Tax Rate (formatted: .0xx) If yes, save it into Var taxRate

Yes

No

Decide whether or not the subtotal was formatted correctly. (xxx.xx). If yes, Save it into Var subTotal.

No

Yes

Ask user to enter Subtotal (formatted: xxx.xx)

Start

**Pseudocode:**

Start

**Print:** “Please enter Sub Total (formatted: xxx.xx)”

**Scan:** User entered data

**If** not formatted correctly:

**Print:** “Amount entered is invalid. Please re-enter the Sub Total.”

**Else:** save amount into Var subTotal

**Print:** “Please enter your Tax Rate (formatted: .0xx)”

**If** not formatted correctly:

**Print**: “Amount entered is invalid. Please

re-enter your Tax Rate.”

**Else:** save amount into Var taxRate

**Calculate:** salesTax = subTotal \* taxRate

grandTotal = subTotal + salesTax

**Print:** “Your Sales Tax is: xxx.xx”

**Print:** “Your Grand Total is: xxx.xx”

Stop