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# Project:      HW02 (VoMikeHW02SecHY02Ver02.py)
# Name:        Mike Vo
# Date:        01/26/17
# Description:  This program determines the cost of 3 items shipped with
tax
#
#   User input (for each of those 3 items)
#   > Description
#   > Price
#   > Quantity
#   > Weight per item
#
#   Output:
#   > Item purchased
#   > Sub-total
#   > Shipping + Handling costs
#   > Tax
#   > Total

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def main():
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    ### Display main header ###
    print( "#####" )
    print( "#      Mike Vo - CSC110 HY02 HW02      #" )
    print( "#              Ver. 02              #" )
    print( "#####" )

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    ### Initialize data bank ###
    strItemDescriptionSummary = "\t"
    fltPriceSubTotal = 0
    fltTotalShippingAndHandlingCost = 0

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    ### Initialize constants ###
    fltConstShippingCostPerLb = .25
    fltConstHandlingCostPerOrder = 5.0
    fltConstTaxRate = .09
    intNumberOfOrders = 3

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    # try-except structure to catch bad input
    try:

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        ### User input and data processing ###
        print( "\nPlease enter your purchase information" )
        print( "-----" )

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        # Input loop
        for intIndex in range( intNumberOfOrders ):

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            # Item header
            print( "Item " + str( intIndex + 1 ) + ":" )

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            # Item data input
            strItemDescription = str( input( "> Description      : " ) )

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)
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        fltItemUnitPrice = float( input( " > Price                : $" )
    )
        intItemQuantity = int( input( " > Quantity                : " ) )
        fltWeightPerItemLbs = float( input( " > Weight/Item (lbs) : "
    ) )

    # Add description to data bank
    strItemDescriptionSummary += str( intIndex + 1 ) + ". " +
strItemDescription
    if intIndex != (intNumberOfOrders - 1):
        strItemDescriptionSummary += "\n\t"

    # Calculate Shipping cost and item Price; then add them to
data bank (not including Handling cost)
    fltTotalShippingAndHandlingCost += fltWeightPerItemLbs *
intItemQuantity * fltConstShippingCostPerLb
    fltPriceSubTotal += fltItemUnitPrice * intItemQuantity

    # Finalize data bank
    fltTotalShippingAndHandlingCost += fltConstHandlingCostPerOrder
    fltPriceSubTotal += fltTotalShippingAndHandlingCost
    fltPriceTotal = fltPriceSubTotal * (1 + fltConstTaxRate)

    ### Display output ###
    print( "\n\nYou have purchased:\n" + strItemDescriptionSummary )
    print( "-----" )
    print( "Sub-total                : ${0:0.2f}".format(
fltPriceSubTotal ) )
    print( "Shipping and Handling costs : ${0:0.2f}".format(
fltTotalShippingAndHandlingCost ) )
    print( "Tax (9%)                : ${0:0.2f}".format(
(fltPriceSubTotal * fltConstTaxRate) ) )
    print( "-----" )
    print( "Total                : ${0:0.2f}".format(
fltPriceTotal ) )

    # Print a message when ecounter ValueError (user enter the wrong data
type)
    except ValueError:
        print( "Error: Bad input. Program terminated." )

```

main()

"""

TEST DATA

Generated using MS Excel

Item #	Description	Price	Quantity
	Weight/Item (lb)		
1	Gibson Hummingbird guitar M2017-Standard	3,349	1
	2.28		
2	DAddario EJ16 Phosphor Bronze, Light, 12-53	6.49	3
	0.03		

3	Musicians Gear Deluxe Dreadnought Case B	79.99 1
3.11		

Sub-Total	3454.805
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S+H*	6.355
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Tax	310.93245
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Total	3765.73745
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*S+H: Shipping and Handling costs

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