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# Project: Lab03 (VoMikeLab03SecHY02Ver01.py)
# Name:
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# Date:
             01/23/15
# Description: This program consists of 2 parts:
#
   Part 1: The Konditorei coffee shop sells coffee at $10.50 a pound
#
           plus the cost of shipping. Each order ships for $.86 per
           pound + $1.50 fixed cost for overhead. This part calculates
           the cost of an order.
  Part 2: Asks a user for their age and the balance of their savings
           account. Then calculates how much they need to contribute
#
           to that savings account, on a monthly basis, so that they
           can retire at age 68 with $1,125,000.
# Part 1:
def MainA():
    # Print part 1 header to shell
   print( "\nKONDITOREI COFFEE SHOP" )
   print( "Price: $10.50/pound | Shipping: $0.86/pound + $1.50
overhead (fixed)" )
   print( "\nEnter your order:")
    # Prompt user for order info
   fltCoffeeAmountPounds = float( input( "Coffee Amount (pounds)>>> " )
)
    # Calculate coffee total price, shipping price (including fixed
overhead),
    # sub-total (without tax)
    fltCoffeeTotalPrice = fltCoffeeAmountPounds * 10.50
    fltShippingPriceWithOverhead = fltCoffeeAmountPounds * .86 + 1.50
   fltSubTotal = fltCoffeeTotalPrice + fltShippingPriceWithOverhead
    # Tax Rate: 9%
    fltTaxRate = .09
    # Calculate Total (with tax)
   fltTotal = fltSubTotal * (1 + fltTaxRate)
    # Print output
   print( "\nCoffee
                                :
                                     ${0:0.2f}".format(
fltCoffeeTotalPrice ) )
   print( "Shipping
                                      ${0:0.2f}".format(
fltShippingPriceWithOverhead - 1.50 ) )
   print( "Overhead fee (fixed) : $1.50")
   print( "-----
                                      ----" )
                           : ${0:0.2f}".format(fltSubTotal
   print( "Sub-total
) )
                                      9%")
   print( "Tax
                               :
   print( "----")
                         : ${0:0.2f}".format(fltTotal))
   print( "Total
```

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print( "\nThank you for shopping at Konditorei Coffee Shop :-)" )
# Part 2:
def MainB():
    # Print part 2 header to shell
   print( "\nBANK OF 'MURRICA" )
   print ( "Saving account calculator. Goal: Retire at age 68 with
$1,125,000")
   print( "\nEnter your info:" )
    # Prompt user for age and savings account balance
    intAge = int( input( "How old are you? (I'm sorry)>>> " ) )
   intMonthsUntilNextBirthday = int( input( "How many month(s) from now
until next birthday?>>> " ) )
   fltCurrentSavingsBalance = float( input( "Savings Account Balance>>>
$"))
    # Calculate time until aged 68 (in months, then years)
    intYearsUntilAged68 = 68 - intAge
    intMonthsUntilAged68 = intYearsUntilAged68 * 12 - (12 -
intMonthsUntilNextBirthday)
    # Calculate the amount of money to save (total, then monthly)
    fltMoneyToSave = 1125000.00 - fltCurrentSavingsBalance
    fltMoneyToSavePerMonth = fltMoneyToSave / intMonthsUntilAged68
    # Print output
   print( "\nYou have to save ${0:0.2f} per month to retire at age 68
with $1,125,000".format( fltMoneyToSavePerMonth ) )
# Main program:
def main():
    # Print global header to shell
   print( "#############################" )
   print( "# Mike Vo - CSC110 HY02 Lab03
   print( "#
                          Ver. 01
   print( "###############################" )
   # Evoke part 1 and part 2
   MainA()
   MainB()
# Evoke main program
main()
** ** **
TEST DATA (Created on MS Excel)
Part 1:
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Coffee (lbs)		P	rice	Shipping	Overh	ead	Sub-T	otal	Tax R	ate
	Total									
1		10.5	0.86		1.5		12.86		0.09	
	14.0174									
1.5		15.75	1.29		1.5		18.54		0.09	
	20.2086									
10		105	8.6	1.5		115.1		0.09		125.459
17.25		181.125	)	14.835	1.5		197.4	6		0.09
	215.23	14								
120		1260	103.2		1.5		1364.	7		0.09
	1487.5	23								
101.5	2	1	065.96	87.	3072	1.5		1154.	7672	0.09
1258.696248										
1000		10500	860	1.5		11361	.5		0.09	
	12384.	035								
1234.	56	1	2962.8	8 1061.72	216	1.5		14026	.1016	0.09
	15288.	45074								

## Part 2:

Age	MTB*	Balance	Э	Monthly	Saving
20	3	5700	1974.	074074	
45	0	50000	4071.	969697	
1	11	100000		1276.463	3263
67	1	0	11250	00	
67	11	102500		92954.54	1545
68	0	1125000	С	0	
68	0	0	-9375	0	
75	0	1126000	С	10.41666	5667
73	-60	1126000	С	7.575757	7576
75	0	0	-1171	8.75	
73	-60	0	-8522	.727273	
0	0	0	1399.	253731	
0	0	1250000	С	-155.472	26368
0	0	2000000	C	-1088.30	08458

\*MTB: Months till birthday

" " "