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# Project:      Homework4 (ChengLanQingHomework04Sec03.py)
# Name:        LanQing Cheng
# Date:        11/14/15
# Description:  This program will allow the user to input the name of
coffee,
#              weight of coffee,state,shipping information. And provide
the
#              cost of sending out coffee.
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#Test Data:
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# The Konditorei coffee shop
# You have ordered: $ JB for 5.0 lbs
# Coffee Cost: $ 52.5
# Shipping & Handling Cost: $ 27.15
# subtotal(Coffee + Shipping & Handling): $ 82.04
# City and State: SEATTLE WA
# Delivery Method: O
# Payment type: PP
# Tax: $ 7.38
# Total: $ 89.42
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# Use function to calculate the tax
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def Tax(strState, subTotal):
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    if strState == "WA" or strState == "CA" or strState == "TX" :
        fltTax = 0.09 * subTotal
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    elif strState == "OR" or strState == "FL":
        fltTax = 0.0
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    else:
        fltTax = 0.07 * subTotal
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    return fltTax
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# Use function to calculate the cost of coffee
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def CostOfCoffee(strTypeOfCoffee, fltPound):
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    # Check the type of Coffee
    if strTypeOfCoffee == "JB" or strTypeOfCoffee == "Jonestown Brew":
        fltCoffee = 10.5 * fltPound
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    elif strTypeOfCoffee == "PJ" or strTypeOfCoffee == "Plymouth Jolt":
        fltCoffee = 16.95 * fltPound
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    return fltCoffee
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# Use function to calculate the Shipping and Handling cost
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def ShippingandHandling(fltPound, strShip):
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    if strShip == "O" or strShip == "Overnight":
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        fltDelivery = 20.0

    elif strShip == "2D" or strShip == "2-Day":
        fltDelivery = 13.0

    elif strShip == "S" or strShip == "Standard":
        fltDelivery = 0.0

    # The cost of shipping is $0.93 per pound and handling cost of $2.50
    per order
    fltShippingandHandling = 0.93 * fltPound + 2.5 + fltDelivery

    return fltShippingandHandling


def main():

    # Let the user input the information
    strTypeOfCoffee = str(input("Enter the type of coffee:Jonestown
    Brew(JB) or Plymouth Jolt(PJ):"))

    # Use while loop to make sure the input is correct
    while strTypeOfCoffee != "JB" and strTypeOfCoffee != "Jonestown Brew"
    and strTypeOfCoffee != " Plymouth Jolt" and strTypeOfCoffee != "PJ":
        strTypeOfCoffee = str(input("Please enter a valid Type of
    Coffee:Jonestown Brew(JB) or Plymouth Jolt(PJ):"))

    fltPound = float(input("Enter the number of lbs:"))
    strCity = str(input("Enter the city:"))
    strState = str(input("Enter the State: WA, CA, TX, OR, FL:"))

    strShip = str(input("Enter the shipping method:Overnight(O), 2-
    Day(2D) or Standard(S):"))

    # Use while loop to check Shipping method
    while strShip != "O" and strShip != "Overnight" and strShip != "2D"
    and strShip != "2-Day"and strShip != "S" and strShip != "Standard":
        strShip = str(input("Please enter a valid shipping
    method:Overnight(O), 2-Day(2D) or Standard(S):"))

    strPayment = str(input("Enter the payment option:PayPal(PP), Credit
    Card(CC) or Check(Ck):"))

    # Use while loop to check payment option
    while strPayment != "PayPal" and strPayment != "PP" and strPayment
    != "Credit Card" and strPayment != "CC" and strPayment != "Check" and
    strPayment != "CK":
        strPayment = str(input("Please enter a valid payment
    option:PayPal(PP), Credit Card(CC) or Check(Ck):"))

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# Call ShippingandHandling function
fltShippingandHandling = ShippingandHandling(fltPound, strShip)

# Call CostOfCoffee function
fltCoffee = CostOfCoffee(strTypeOfCoffee, fltPound )

# Calculate subTotal
subTotal = fltCoffee + fltShippingandHandling

if strPayment == "PP":
    subTotal += subTotal * 0.03

elif strPayment == "CC":
    subTotal += subTotal * 0.05

elif strPayment == "CK":
    subTotal = subTotal * (1-0.02)

# Call Tax function
fltTax = Tax(strState, subTotal)

# Calculate total
fltTotal = subTotal + fltTax


# Display the result
print()
print("", "The Konditorei coffee shop", "")
print("You have ordered: $", strTypeOfCoffee, "for", fltPound, "lbs")
print("Coffee Cost: $", fltCoffee)
print("Shipping & Handling Cost: $", fltShippingandHandling)
print("subtotal(Coffee + Shipping & Handling): $", round(subTotal, 2))
print("City and State:", strCity, strState)
print("Delivery Method:", strShip)
print("Payment type:", strPayment)
print("Tax: $", round(fltTax, 2))
print("Total: $", round(fltTotal, 2))

main()

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