#Lillian Martinez

#2/2/19

#Program Description: This program calculates your cars mileage per gallon

#Declare Variables

beginMileage = 0.0

endMileage = 0.0

milesTraveled = 0.0

gallonsUsed = 0.0

milesPerGal = 0.0

#Get Inputs

beginMileage = float(input("Enter the amount of the beginning mileage: "))

endMileage = float(input("Enter the amount of the ending mileage: "))

gallonsUsed = float(input("Enter the amount of gallons used for the trip: "))

#Begin Processing

milesTraveled = endMileage - beginMileage

milesPerGal = milesTraveled / gallonsUsed

#Display Output

print("The average miles per gallon is: ", format(milesPerGal, ".2f") )

#Lillian Martinez

#2/2/19

#Program Description: This program calculates the subtotal sale amount, the

#sales tax amount, and the total sale amount given the sales tax rate

#Declare Variables

firstItem = 0.0

secondItem = 0.0

thirdItem = 0.0

fourthItem = 0.0

fifthItem = 0.0

salesTax = 0.0

subtotal = 0.0

totalSale = 0.0

#Get Inputs

firstItem = float(input("Enter the amount of the first item: "))

secondItem = float(input("Enter the amount of the second item: "))

thirdItem = float(input("Enter the amount of the third item: "))

fourthItem = float(input("Enter the amount of the fourth item: "))

fifthItem = float(input("Enter the amount of the fifth item: "))

#Begin Processing

subtotal = firstItem + secondItem + thirdItem + fourthItem + fifthItem

salesTax = subtotal \* .0825

totalSale = subtotal + salesTax

#Display Output

print("The subtotal sale amount is: ", format(subtotal, ".2f"))

print("The sales tax amount is: ", format(salesTax, ".2f"))

print("The total sale amount is: ", format(totalSale, ".2f"))

#Lillian Martinez

#2/2/19

#Program Description: This program converts Celsius temperatures to Fahrenheit

#temperatures.

#Declare Variables

fahrenheit = 0.0

celsius = 0.0

#Get Inputs

celsius = float(input("Enter a temperature in Celsius: "))

#Begin Processing

fahrenheit = (celsius \* 9 / 5) + 32

#Display Output

print("The temperature in Fahrenheit is: ", format(fahrenheit, ".2f") )