Programming Exercise 3-9

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# Global constants for paint job estimator
FEET PER GALLON = 115
LABOR HOURS = 8
LABOR CHARGE = 20
# main module
def main():
    # Local variables
   pricePaint = 0.0
    feetWall = 0.0
    gallonPaint = 0
    hourLabor = 0
    costPaint = 0.0
    costLabor = 0.0
    # Get wall space
    feetWall = float(input("Enter wall space in square feet: "))
    # Get paint price
    pricePaint = float(input("Enter paint price per gallon: "))
    # Calculate gallons of paint
    gallonPaint = int(feetWall / FEET PER GALLON) + 1
    # Calculate labor hours
    hourLabor = gallonPaint * LABOR HOURS
    # Calculate labor charge
    costLabor = hourLabor * LABOR CHARGE
    # Calculate paint cost
    costPaint = gallonPaint * pricePaint
    # print cost estimate
    showCostEstimate(gallonPaint, hourLabor, costPaint, costLabor)
# The showCostEstimate function accepts gallonPaint, hourLabor, costPaint,
# costLabor as arguments and displays the corresponding data
def showCostEstimate(gallonPaint, hourLabor, costPaint, costLabor):
    #Local variable
    totalCost = 0.0
    #calculate total cost
    totalCost = costPaint + costLabor
    #display results
    print ("Gallons of paint: ", gallonPaint)
print ("Hours of labor: ", hourLabor)
    print ("Paint charges: $" , format(costPaint, '.2f'))
    print ("Labor charges: $" , format(costLabor, '.2f'))
    print ("Total cost: $" , format(totalCost, '.2f'))
```

