Assignment Chapter 2 Randall Fishwick

CO SCI 124

Python Programming

*# Variables for the stock prices, commissions and gain/loss amounts.  
# Integer*share\_qty = 0  
  
*# Real*share\_buy\_price = 0.0  
share\_sell\_price = 0.0  
stock\_buy\_price = 0.0  
stock\_sell\_price = 00.0  
commission\_buy\_amt = 0.0  
commission\_sell\_amt = 0.0  
stock\_buy\_price\_w\_commission = 0.0  
stock\_sell\_price\_m\_commission = 0.0  
total\_gain = 0.0  
  
*# Constant*COMMISSION\_RATE = .03  
  
*# Get the share quantity.*share\_qty = int(input(**"Shares purchased: "**))  
  
*# Get the share purchase price*share\_buy\_price = float(input(**"Initial share Price: "**))  
  
share\_sell\_price = float(input(**"Final share Price: "**))  
  
  
*# Calculate the stock buy price before commission*stock\_buy\_price = share\_qty \* share\_buy\_price  
  
*# Calculate the commission on the buy*commission\_buy\_amt = stock\_buy\_price \* COMMISSION\_RATE  
  
*# Calculate total stock purchase price including commission*stock\_buy\_price\_w\_commission = stock\_buy\_price + commission\_buy\_amt  
  
*# Calculate stock selling price before commission*stock\_sell\_price = share\_qty \* share\_sell\_price  
  
*# Calculate the commission on the sell*commission\_sell\_amt = stock\_sell\_price \* COMMISSION\_RATE  
  
*# Calculate total stock sell price including commission*stock\_sell\_price\_m\_commission = stock\_sell\_price - commission\_sell\_amt  
  
*# Calculate profit/loss on sell of stock*total\_gain = stock\_sell\_price\_m\_commission - stock\_buy\_price\_w\_commission  
  
  
*# Print stock buy price  
# print("\nStock buy price:", format(stock\_buy\_price, ',.2f'))  
  
# Print stock purchase price including commission*print(**"\nNet buy price:"**, format(stock\_buy\_price\_w\_commission, **',.2f'**))  
  
*# Print commission amount on buy*print(**"Buy commission:"**, format(commission\_buy\_amt, **',.2f'**))  
  
*# Print stock sell price  
# print("Stock sell price:", format(stock\_sell\_price, ',.2f'))  
  
# Print stock sell price including commission*print(**"Net sell price:"**, format(stock\_sell\_price\_m\_commission, **',.2f'**))  
  
*# Print commission amount on sell*print(**"Sell commission:"**, format(commission\_sell\_amt, **',.2f'**))  
  
*# Print gain on sell:*print(**"\nProfit/Loss:"**, format(total\_gain, **',.2f'**))

B

End

Display “Net buy price” stock\_buy\_price\_w\_commission

stock\_buy\_price\_w\_commission = stock\_buy\_price + commission\_buy\_amt

Display “Shares purchased”

Start

Declare Integer share\_qty

Declare Real

share\_buy\_price, share\_sell\_price, stock\_buy\_price, stock\_sell\_price, commission\_buy\_amt, commission\_sell\_amt, stock\_buy\_price\_w\_commission,

stock\_sell\_price\_m\_commission

total\_gain

B

Display “Profit/Loss” total\_gain

Display “Sell commission” commission\_sell\_amt

total\_gain = stock\_sell\_price\_m\_commission - stock\_buy\_price\_w\_commission

Display “Net sell price” stock\_sell\_price\_m\_commission

Display “Buy commission” commission\_buy\_amt

Input share\_qty

stock\_sell\_price\_m\_commission = stock\_sell\_price - commission\_sell\_amt

commission\_sell\_amt = stock\_sell\_price \* COMMISSION\_RATE

stock\_sell\_price = share\_qty \* share\_sell\_price

commission\_buy\_amt = stock\_buy\_price \* COMMISSION\_RATE

stock\_buy\_price = share\_qty \* share\_buy\_price

A

Constant Real COMMISSION\_RATE = 3%

Display “Initial share price”

Input share\_buy\_price

Display “Final share price”

A

Input share\_sell\_price