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1 # name: Justin Dang
2 # Student ID: 1148267
3 # Homework 2, PS2
4 # Takes an infinite amount of user inputs until user decides they are done,
5 # then displays name of stock, amount paid for stock, amount of commission
6 # user paid, amount stock was sold for, amount of commission user paid broker,
7 # and amount of money user has left when stock is sold along with money given to
8 # broker while showing profit/loss using the user input.
9
10 #Variable
11 DATA = True
12 #takes userinput and calculates values
13 while DATA:
14     NAME = str(input("\nEnter the name of the stock:"))
15     NMBR = int(input('Enter the number of shares bought:'))
16     PRICE = float(input('Enter the purchase price of the stocks:'))
17     SPRICE = float(input('Enter the selling price of the stocks:'))
18     COMMISSION = float(input('Enter the broker\'s commission:'))
19
20     PAID = NMBR * PRICE
21     CPAID = PAID * COMMISSION
22     SOLD = NMBR * SPRICE
23     SCOMMISSION = SOLD * COMMISSION
24     PROFIT = (SOLD + SCOMMISSION) - (PAID + CPAID)
25 # outputs new values
26     print("\n\nStock name:", NAME)
27     print("\nAmount paid for the stock:", format(PAID, ',.2f'))
28     print('Commission paid on purchase:', format(CPAID, ',.2f'))
29     print('Amount the stock sold for:', format(SOLD, ',.2f'))
30     print('Commission paid on the sale:', format(SCOMMISSION, ',.2f'))
31 #prints out different message depending on if there is a profit/loss
32     if PROFIT < 0:
33         print("You lost", format(PROFIT, ',.2f'))
34     else:
35         print("You profited", format(PROFIT, ',.2f'))
36 #asks user if they wish to continue
37     USERINPUT = str(input("\nDo you wish to enter more?(Type no to end or enter"
38         ' anything else to continue)'))
39     if USERINPUT == "no" or USERINPUT == "No" or USERINPUT == "NO" or USERINPUT == "nO":
40         print('See you next time!')
41         DATA = False
42
43 ## Output with 5 test cases
44 ##
45 ##
46 ## Test Case 1.
47 ##
48 ##Enter the name of the stock:Diapers for adults
49 ##Enter the number of shares bought:500000
50 ##Enter the purchase price of the stocks:12
51 ##Enter the selling price of the stocks:13
52 ##Enter the broker's commission:.05
53 ##
54 ##
55 ##Stock name: Diapers for adults
56 ##
57 ##Amount paid for the stock: 6,000,000.00
58 ##Commission paid on purchase: 300,000.00
59 ##Amount the stock sold for: 6,500,000.00
60 ##Commission paid on the sale: 325,000.00
61 ##You profited 525,000.00
62 ##
63 ##Do you wish to enter more?(Type no to end or enter anything else to continue)
64 ##
65 ##Enter the name of the stock:Diapers for children
66 ##Enter the number of shares bought:91283901283

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67 ##Enter the purchase price of the stocks:120
68 #Enter the selling price of the stocks:128
69 ##Enter the broker's commission:.12
70 ##
71 ##
72 ##Stock name: Diapers for children
73 ##
74 ##Amount paid for the stock: 10,954,068,153,960.00
75 ##Commission paid on purchase: 1,314,488,178,475.20
76 ##Amount the stock sold for: 11,684,339,364,224.00
77 ##Commission paid on the sale: 1,402,120,723,706.88
78 ##You profited 817,903,755,495.68
79 ##
80 ##Do you wish to enter more?(Type no to end or enter anything else to continue)no
81 ##See you next time!
82
83 ## Test Case 2.
84 ##
85 ##
86 ##Enter the name of the stock:yup yup
87 ##Enter the number of shares bought:1
88 ##Enter the purchase price of the stocks:1
89 ##Enter the selling price of the stocks:1
90 ##Enter the broker's commission:1
91 ##
92 ##
93 ##Stock name: yup yup
94 ##
95 ##Amount paid for the stock: 1.00
96 ##Commission paid on purchase: 1.00
97 ##Amount the stock sold for: 1.00
98 ##Commission paid on the sale: 1.00
99 ##You profited 0.00
100 ##
101 ##Do you wish to enter more?(Type no to end or enter anything else to continue)no
102 ##See you next time!
103
104 ## Test Case 3.
105 ##
106 ##
107 ##Enter the name of the stock:cat
108 ##Enter the number of shares bought:10
109 ##Enter the purchase price of the stocks:10
110 ##Enter the selling price of the stocks:12
111 ##Enter the broker's commission:.04
112 ##
113 ##
114 ##Stock name: cat
115 ##
116 ##Amount paid for the stock: 100.00
117 ##Commission paid on purchase: 4.00
118 ##Amount the stock sold for: 120.00
119 ##Commission paid on the sale: 4.80
120 ##You profited 20.80
121 ##
122 ##Do you wish to enter more?(Type no to end or enter anything else to continue)
123 ##
124 ##Enter the name of the stock:dogs
125 ##Enter the number of shares bought:20
126 ##Enter the purchase price of the stocks:12
127 ##Enter the selling price of the stocks:13
128 ##Enter the broker's commission:.90
129 ##
130 ##
131 ##Stock name: dogs
132 ##
133 ##Amount paid for the stock: 240.00
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134 ##Commission paid on purchase: 216.00
135 ##Amount the stock sold for: 260.00
136 ##Commission paid on the sale: 234.00
137 ##You profited 38.00
138 ##
139 ##Do you wish to enter more?(Type no to end or enter anything else to continue)
140 ##
141 ##Enter the name of the stock:bird
142 ##Enter the number of shares bought:12304
143 ##Enter the purchase price of the stocks:12
144 ##Enter the selling price of the stocks:115
145 ##Enter the broker's commission:.01
146 ##
147 ##
148 ##Stock name: bird
149 ##
150 ##Amount paid for the stock: 147,648.00
151 ##Commission paid on purchase: 1,476.48
152 ##Amount the stock sold for: 1,414,960.00
153 ##Commission paid on the sale: 14,149.60
154 ##You profited 1,279,985.12
155 ##
156 ##Do you wish to enter more?(Type no to end or enter anything else to continue)no
157 ##See you next time!
158
159 ## Test Case 4.
160 ##
161 ##
162 ##Enter the name of the stock:pets
163 ##Enter the number of shares bought:12879467182673
164 ##Enter the purchase price of the stocks:123
165 ##Enter the selling price of the stocks:189
166 ##Enter the broker's commission:0
167 ##
168 ##
169 ##Stock name: pets
170 ##
171 ##Amount paid for the stock: 1,584,174,463,468,779.00
172 ##Commission paid on purchase: 0.00
173 ##Amount the stock sold for: 2,434,219,297,525,197.00
174 ##Commission paid on the sale: 0.00
175 ##You profited 850,044,834,056,418.00
176 ##
177 ##Do you wish to enter more?(Type no to end or enter anything else to continue)
178 ##
179 ##Enter the name of the stock:no pets
180 ##Enter the number of shares bought:12938
181 ##Enter the purchase price of the stocks:312
182 ##Enter the selling price of the stocks:123
183 ##Enter the broker's commission:.90
184 ##
185 ##
186 ##Stock name: no pets
187 ##
188 ##Amount paid for the stock: 4,036,656.00
189 ##Commission paid on purchase: 3,632,990.40
190 ##Amount the stock sold for: 1,591,374.00
191 ##Commission paid on the sale: 1,432,236.60
192 ##You lost -4,646,035.80
193 ##
194 ##Do you wish to enter more?(Type no to end or enter anything else to continue)no
195 ##See you next time!
196
197 ## Test Case 5.
198 ##
199 ##
200 ##Enter the name of the stock:one
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201 ##Enter the number of shares bought:1
202 ##Enter the purchase price of the stocks:1
203 ##Enter the selling price of the stocks:1
204 ##Enter the broker's commission:1
205 ##
206 ##
207 ##Stock name: one
208 ##
209 ##Amount paid for the stock: 1.00
210 ##Commission paid on purchase: 1.00
211 ##Amount the stock sold for: 1.00
212 ##Commission paid on the sale: 1.00
213 ##You profited 0.00
214 ##
215 ##Do you wish to enter more?(Type no to end or enter anything else to continue)
216 ##
217 ##Enter the name of the stock:two
218 ##Enter the number of shares bought:2
219 ##Enter the purchase price of the stocks:2
220 ##Enter the selling price of the stocks:2
221 ##Enter the broker's commission:2
222 ##
223 ##
224 ##Stock name: two
225 ##
226 ##Amount paid for the stock: 4.00
227 ##Commission paid on purchase: 8.00
228 ##Amount the stock sold for: 4.00
229 ##Commission paid on the sale: 8.00
230 ##You profited 0.00
231 ##
232 ##Do you wish to enter more?(Type no to end or enter anything else to continue)
233 ##
234 ##Enter the name of the stock:three
235 ##Enter the number of shares bought:3
236 ##Enter the purchase price of the stocks:3
237 ##Enter the selling price of the stocks:3
238 ##Enter the broker's commission:3
239 ##
240 ##
241 ##Stock name: three
242 ##
243 ##Amount paid for the stock: 9.00
244 ##Commission paid on purchase: 27.00
245 ##Amount the stock sold for: 9.00
246 ##Commission paid on the sale: 27.00
247 ##You profited 0.00
248 ##
249 ##Do you wish to enter more?(Type no to end or enter anything else to continue)
250 ##
251 ##Enter the name of the stock:four
252 ##Enter the number of shares bought:4
253 ##Enter the purchase price of the stocks:4
254 ##Enter the selling price of the stocks:4
255 ##Enter the broker's commission:4
256 ##
257 ##
258 ##Stock name: four
259 ##
260 ##Amount paid for the stock: 16.00
261 ##Commission paid on purchase: 64.00
262 ##Amount the stock sold for: 16.00
263 ##Commission paid on the sale: 64.00
264 ##You profited 0.00
265 ##
266 ##Do you wish to enter more?(Type no to end or enter anything else to continue)NO
267 ##See you next time!
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