```python
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# Homework 3, Problem set 1

'''
Allows user to enter as many stocks as they want and returns information
along with calculations
'''
#gets userinput and calculates data to allow for output depending on information given
def stocks()->(str):
    NAME = str(input('Enter the name of the stock:'))
    SHARES = float(input('Enter the number of shares bought:'))
    PPRICE = float(input('Enter the purchase price:'))
    SPRICE = float(input('Enter the selling price:'))
    COMMISSION = float(input('Enter the commission percent:'))

    PAID = SHARES * PPRICE
    PCOMMISSION = PAID * COMMISSION
    SOLD = SHARES * SPRICE
    SCOMMISSION = SOLD * COMMISSION
    PROFITLOSS = (PAID + PCOMMISSION) - (SOLD - SCOMMISSION)

    print('Stock Name:', NAME)
    print()
    print('Amount paid for stock:      ${:>10,.2f}'.format(PAID))
    print('Amount of commission paid:  ${:>10,.2f}'.format(PCOMMISSION))
    print('Amount that stock sold for:  ${:>10,.2f}'.format(SOLD))
    print('Amount of commission sold:   ${:>10,.2f}'.format(SCOMMISSION))
    print('PROFIT/LOSS:                ${:>10,.2f}'.format(PROFITLOSS))
#initiates function and determines wether function breaks depending on user
if __name__== '__main__':
    USERINPUT = ''
    while USERINPUT != "done" and USERINPUT != "Done":
        USERINPUT = str(input('Enter anything to input stock information or type done to quit the program:'))
        if USERINPUT != "done" and USERINPUT != "Done":
            stocks()
        else:
            print('Have a nice day!')
            break

## Output with test cases
##
## Test Case 1.
##
##Enter anything to input stock information or type done to quit the program:Done
##Have a nice day!

## Test Case 2.
##
##Enter anything to input stock information or type done to quit the program:iorwnf
##Enter the name of the stock:GoodYear
##Enter the number of shares bought:1100
##Enter the purchase price:33.2
##Enter the selling price:33
##Enter the commission percent:.09
##Stock Name: GoodYear
##
##Amount paid for stock:      $ 36,520.00
##Amount of commission paid:  $  3,286.80
##Amount that stock sold for:  $ 36,300.00
##Amount of commission sold:   $  3,267.00
##PROFIT/LOSS:                $  6,773.80
##Enter anything to input stock information or type done to quit the program:
##Enter the name of the stock:BadYear
##Enter the number of shares bought:34
##Enter the purchase price:10
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67   ##Enter the selling price:11
68   ##Enter the commission percent:2
69   ##Stock Name: BadYear
70   ##
71   ##Amount paid for stock:      $    340.00
72   ##Amount of commission paid:   $    680.00
73   ##Amount that stock sold for:  $    374.00
74   ##Amount of commission sold:   $    748.00
75   ##PROFIT/LOSS:                 $  1,394.00
76   ##Enter anything to input stock information or type done to quit the program:done
77   ##Have a nice day!
78
79   ## Test Case 3.
80   ##
81   ##Enter anything to input stock information or type done to quit the program:no
82   ##Enter the name of the stock:12345
83   ##Enter the number of shares bought:12345
84   ##Enter the purchase price:1234
85   ##Enter the selling price:1.2345
86   ##Enter the commission percent:12.345
87   ##Stock Name: 12345
88   ##
89   ##Amount paid for stock:      $15,233,730.00
90   ##Amount of commission paid:   $188,060,396.85
91   ##Amount that stock sold for:  $ 15,239.90
92   ##Amount of commission sold:   $188,136.60
93   ##PROFIT/LOSS:                 $203,467,023.54
94   ##Enter anything to input stock information or type done to quit the program:done
95   ##Have a nice day!
96
97   ## Test Case 4.
98   ##
99   ##Enter anything to input stock information or type done to quit the program:
100  ##Enter the name of the stock:one
101  ##Enter the number of shares bought:1
102  ##Enter the purchase price:1
103  ##Enter the selling price:1
104  ##Enter the commission percent:1
105  ##Stock Name: one
106  ##
107  ##Amount paid for stock:      $      1.00
108  ##Amount of commission paid:   $      1.00
109  ##Amount that stock sold for:  $      1.00
110  ##Amount of commission sold:   $      1.00
111  ##PROFIT/LOSS:                 $      2.00
112  ##Enter anything to input stock information or type done to quit the program:2
113  ##Enter the name of the stock:two
114  ##Enter the number of shares bought:2
115  ##Enter the purchase price:2
116  ##Enter the selling price:2
117  ##Enter the commission percent:2
118  ##Stock Name: two
119  ##
120  ##Amount paid for stock:      $      4.00
121  ##Amount of commission paid:   $      8.00
122  ##Amount that stock sold for:  $      4.00
123  ##Amount of commission sold:   $      8.00
124  ##PROFIT/LOSS:                 $     16.00
125  ##Enter anything to input stock information or type done to quit the program:3
126  ##Enter the name of the stock:three
127  ##Enter the number of shares bought:3
128  ##Enter the purchase price:3
129  ##Enter the selling price:3
130  ##Enter the commission percent:3
131  ##Stock Name: three
132  ##
133  ##Amount paid for stock:      $      9.00
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134 ##Amount of commission paid: $ 27.00
135 ##Amount that stock sold for: $ 9.00
136 ##Amount of commission sold: $ 27.00
137 ##PROFIT/LOSS: $ 54.00
138 ##Enter anything to input stock information or type done to quit the program:done
139 ##Have a nice day!
140
141 ## Test Case 5.
142 ##
143 ##Enter anything to input stock information or type done to quit the program:anything
144 ##Enter the name of the stock:anything
145 ##Enter the number of shares bought:3242135231
146 ##Enter the purchase price:3215123
147 ##Enter the selling price:32153125
148 ##Enter the commission percent:21352135
149 ##Stock Name: anything
150 ##
151 ##Amount paid for stock: $10,423,863,550,298,412.00
152 ##Amount of commission paid: $222,571,741,747,550,980,407,296.00
153 ##Amount that stock sold for: $104,244,779,349,246,880.00
154 ##Amount of commission sold: $2,225,848,601,710,331,523,235,840.00
155 ##PROFIT/LOSS: $2,448,420,249,636,966,749,962,240.00
156 ##Enter anything to input stock information or type done to quit the program:done
157 ##Have a nice day!