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1  # This program allows the user to modify the quantity
2  # in a record in the coffee.txt file.
3
4  import os # Needed for the remove and rename functions
5
6  def mod_coffee():
7      # Create a bool variable to use as a flag.
8      found = False
9
10     # Get the search value and the new quantity.
11     search = input('Enter a description to search for: ')
12     new_qty = int(input('Enter the new quantity: '))
13
14     # Open the original coffee.txt file.
15     coffee_file = open('coffee.txt', 'r')
16
17     # Open the temporary file.
18     temp_file = open('temp.txt', 'w')
19
20     # Read the first record's description field.
21     descr = coffee_file.readline()
22
23     # Read the rest of the file.
24     while descr != "":
25         # Read the quantity field.
26         qty = float(coffee_file.readline())
27
28         # Strip the \n from the description.
29         descr = descr.rstrip('\n')
30
31         # Write either this record to the temporary file,
32         # or the new record if this is the one that is
33         # to be modified.
34         if descr == search:
35             # Write the modified record to the temp file.
36             temp_file.write(descr + '\n')
37             temp_file.write(str(new_qty) + '\n')
38
39             # Set the found flag to True.
40             found = True
41         else:
42             # Write the original record to the temp file.
43             temp_file.write(descr + '\n')
44             temp_file.write(str(qty) + '\n')
45
46         # Read the next description.
47         descr = coffee_file.readline()
48
49     # Close the coffee file and the temporary file.
50     coffee_file.close()
51     temp_file.close()
52
53     # Delete the original coffee.txt file.
54     os.remove('coffee.txt')
55
56     # Rename the temporary file.
57     os.rename('temp.txt', 'coffee.txt')
58
59     # If the search value was not found in the file
60     # display a message.
61     if found:
62         print('The file has been updated.')
63     else:
64         print('That item was not found in the file.')
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