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1  #!/usr/bin/env python
2  # -*- coding: utf-8 -*-
3  # @Date      : 2016-07-01 22:23:37
4  # @Author    : Xingfan Xia (xiaux@carleton.edu)
5  # @Link      : http://xiaux.tech
6  # @Version   : $1.6
7
8  from __future__ import division
9  import math
10
11  # price
12  appleJuice = 19.5
13  coke = 3.7
14  orangeJuice = 12.4
15  instantnoodles = 2.7
16
17
18  def main():
19      itemAmt = goods()
20      print("The total amount to be paid is {}".format(itemAmt))
21      cashAmt = float(input("Please enter the cash paid: \n"))
22      changeAmt = round(cashAmt - itemAmt, 2)
23      print("The total amount you paid is {}; The total price is {}; The
change is {}".format(cashAmt, itemAmt, changeAmt))
24      change(changeAmt)
25
26  def change(amount):
27      # Assume there are notes of 100, 50, 20, 10 and 5
28      # coins of 50cents and 10cents
29      notes_coins = [100, 50, 20, 10, 5, 1, 0.5, 0.1, 0.05, 0.01]
30      change_list = []
31      for c in range(len(notes_coins)):
32          temp = int(amount//notes_coins[c])
33          change_list.append(temp)
34          amount = round(amount - temp*notes_coins[c], 2)
35      for n in range(len(change_list)):
36          print("You need {} of notes of {}".format(change_list[n],
notes_coins[n]))
37
38  def goods():
39      totalValue = 0.00
40      while(True):
41          print('')

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42  =====
43  Please select a drink you want!=
44  1 for Apple Juice           =
45  2 for Coke                  =
46  3 for Orange Juice          =
47  4 for Instant Noddles       =
48  q for leave the supermarket =
49  =====
50  '''
51  a =input("please enter your choice:\n")
52  if(a == '1'):
53      print("You have put apple juice in the basket")
54      totalValue = totalValue + appleJuice
55  elif(a == '2'):
56      print("You have put Coke in the basket")
57      totalValue = totalValue + coke
58  elif(a == '3'):
59      print("You have put orange juice in the basket")
60      totalValue = totalValue + orangeJuice
61  elif(a == '4'):
62      print("You have put instant noodles in the basket")
63  elif(a == 'q'):
64      print("Leaving the supermarket")
65      break
66  else:
67      print("You can't always get what you want")
68  return round(totalValue, 2)
69
70  if __name__ == '__main__':
71      main()

```