MENU = {

"espresso": {

"ingredients": {

"water": 50,

"coffee": 18,

},

"cost": 1.5,

},

"latte": {

"ingredients": {

"water": 200,

"milk": 150,

"coffee": 24,

},

"cost": 2.5,

},

"cappuccino": {

"ingredients": {

"water": 250,

"milk": 100,

"coffee": 24,

},

"cost": 3.0,

}

}

profit = 0

resources = {

"water": 300,

"milk": 200,

"coffee": 100,

}

def is\_resource\_sufficient(order\_ingredients):

"""Returns True when order can be made, False if ingredients are insufficient."""

for item in order\_ingredients:

if order\_ingredients[item] > resources[item]:

print(f"​Sorry there is not enough {item}.")

return False

return True

def process\_coins():

"""Returns the total calculated from coins inserted."""

print("Please insert coins.")

total = int(input("how many quarters?: ")) \* 0.25

total += int(input("how many dimes?: ")) \* 0.1

total += int(input("how many nickles?: ")) \* 0.05

total += int(input("how many pennies?: ")) \* 0.01

return total

def is\_transaction\_successful(money\_received, drink\_cost):

"""Return True when the payment is accepted, or False if money is insufficient."""

if money\_received >= drink\_cost:

change = round(money\_received - drink\_cost, 2)

print(f"Here is ${change} in change.")

global profit

profit += drink\_cost

return True

else:

print("Sorry that's not enough money. Money refunded.")

return False

def make\_coffee(drink\_name, order\_ingredients):

"""Deduct the required ingredients from the resources."""

for item in order\_ingredients:

resources[item] -= order\_ingredients[item]

print(f"Here is your {drink\_name} ☕️. Enjoy!")

is\_on = True

while is\_on:

choice = input("​What would you like? (espresso/latte/cappuccino): ")

if choice == "off":

is\_on = False

elif choice == "report":

print(f"Water: {resources['water']}ml")

print(f"Milk: {resources['milk']}ml")

print(f"Coffee: {resources['coffee']}g")

print(f"Money: ${profit}")

else:

drink = MENU[choice] #espresso

if is\_resource\_sufficient(drink["ingredients"]): #water and cofeee 50 18 #true

payment = process\_coins()

if is\_transaction\_successful(payment, drink["cost"]):

make\_coffee(choice, drink["ingredients"]) #espresso

#aayush goel

#aashi garg

#abhay aggarwal