Work on project. Stage 5/6: On a coffee loop

Project: Coffee Machine

Hard 31 minutes

Description

But just one action isn't interesting. Let's improve the program so it can do multiple actions, one after another. The program should repeatedly ask what the user wants to do. If the user types "buy", "fill" or "take", then just do what the program did in the previous step. However, if the user wants to switch off the coffee machine, he should type "exit". Then the program should terminate. Also, when the user types "remaining", the program should output all the resources that the coffee machine has.

Also, do not forget that you can be out of resources for making coffee. If the coffee machine doesn't have enough resources to make coffee, the program should output a message that says it can't make a cup of coffee.

And the last improvement to the program at this step—if the user types "buy" to buy a cup of coffee and then changes his mind, he should be able to type "back" to return into the main cycle.

Remember, that:

- For the espresso, the coffee machine needs 250 ml of water and 16 g of coffee beans. It costs $4.
- For the latte, the coffee machine needs 350 ml of water, 75 ml of milk, and 20 g of coffee beans. It costs $7.
- And for the cappuccino, the coffee machine needs 200 ml of water, 100 ml of milk, and 12 g of coffee. It costs $6.

Instruction

Write a program that will work endlessly to make coffee for all interested persons until the shutdown signal is given.

Example

Your coffee machine should have the same initial resources as in the example (400 ml of water, 540 ml of milk, 120 g of coffee beans, 9 disposable cups, $550 in cash).
The symbol `>` represents the user input. Notice that it's not the part of the input.

```
Write action (buy, fill, take, remaining, exit):
> remaining

The coffee machine has:
400 of water
540 of milk
120 of coffee beans
9 of disposable cups
$550 of money



Write action (buy, fill, take, remaining, exit):

> buy



What do you want to buy? 1 - espresso, 2 - latte, 3 - cappuccino, back - to main menu:

> 2

I have enough resources, making you a coffee!



Write action (buy, fill, take, remaining, exit):

> remaining



The coffee machine has:

50 of water

465 of milk

100 of coffee beans

8 of disposable cups

$557 of money



Write action (buy, fill, take, remaining, exit):

> buy



What do you want to buy? 1 - espresso, 2 - latte, 3 - cappuccino, back - to main menu:

> 2

Sorry, not enough water!



Write action (buy, fill, take, remaining, exit):

> fill



Write how many ml of water do you want to add:

> 1000

Write how many ml of milk do you want to add:

> 0

Write how many grams of coffee beans do you want to add:

> 0
```

```
Write how many disposable cups of coffee do you want to add:

> 0



Write action (buy, fill, take, remaining, exit):

> remaining



The coffee machine has:

1050 of water

465 of milk

100 of coffee beans

8 of disposable cups

$557 of money



Write action (buy, fill, take, remaining, exit):

> buy



What do you want to buy? 1 - espresso, 2 - latte, 3 - cappuccino, back - to main menu:

> 2

I have enough resources, making you a coffee!



Write action (buy, fill, take, remaining, exit):

> remaining



The coffee machine has:

700 of water

390 of milk

80 of coffee beans

7 of disposable cups

$564 of money



Write action (buy, fill, take, remaining, exit):

> take



I gave you $564



Write action (buy, fill, take, remaining, exit):

> remaining
```

```
The coffee machine has:

700 of water

390 of milk

80 of coffee beans

7 of disposable cups

0 of money



Write action (buy, fill, take, remaining, exit):

> exit
```

↶ Write a program

Code Editor IDE

Java

```
package machine;
import java.util.Scanner;

public class CoffeeMachine {
    public static int water = 400;
    public static int milk = 540;
    public static int coffeBeans = 120;
    public static int disposableCups = 9;
    public static int money = 550;
    public static String action = "";
    public static int coffeChoise = 0;
    public static int exit = 1;

    public static void supplyUpdate() {
        System.out.println("The coffee machine has:\n" +
                water + " of water\n" +
                milk + " of milk\n" +
                coffeBeans + " of coffe beans\n" +
                disposableCups + " of disposable cups\n" +
                money + " of money");
    }

    public static void isAvaible() {

        if (coffeChoise == 1) {
            if (water >= 250 && coffeBeans >= 16 && disposableCups >= 1) {
                System.out.println("I have enough resources, making you a coffee!");
            } else if (water < 250 && coffeBeans >= 16 && disposableCups >= 1) {
                System.out.println("Sorry, not enough water!");
            } else if (water >= 250 && coffeBeans < 16 && disposableCups >= 1) {
                System.out.println("Sorry, not enough coffe beans!");
            } else if (water >= 250 && coffeBeans >= 16 && disposableCups < 1) {
                System.out.println("Sorry, not enough disposable cups!");
            } else if (water < 250 && coffeBeans < 16 && disposableCups >= 1) {
                System.out.println("Sorry, not enough water and coffe beans!");
            } else if (water < 250 && coffeBeans >= 16 && disposableCups < 1) {
                System.out.println("Sorry, not enough water and disposable cups!");
            } else if (water >= 250 && coffeBeans < 16 && disposableCups < 1) {
                System.out.println("Sorry, not enough coffe beans and disposable cups!");
            } else if (water < 250 && coffeBeans < 16 && disposableCups < 1) {
                System.out.println("Sorry, not enough resources!");
            }

        } else if (coffeChoise == 2) {
            if (water >= 350 && milk >= 75 && coffeBeans >= 20 && disposableCups >= 1) {
                System.out.println("I have enough resources, making you a coffee!");
            } else if (water < 350 && milk >= 75 && coffeBeans >= 20 && disposableCups >= 1) {
                System.out.println("Sorry, not enough water!");
            } else if (water >= 350 && milk < 75 && coffeBeans >= 20 && disposableCups >= 1) {
                System.out.println("Sorry, not enough milk!");
            } else if (water >= 350 && milk >= 75 && coffeBeans < 20 && disposableCups >= 1) {
                System.out.println("Sorry, not enough coffe beans!");
            } else if (water >= 350 && milk >= 75 && coffeBeans >= 20 && dispo
                System.out.println("Sorry, not enough disposable cups!");
            } else if (water < 350 && milk < 75 && coffeBeans >= 20 && disposa
                System.out.println("Sorry, not enough water and milk!");
            } else if (water < 350 && milk >= 75 && coffeBeans < 20 && disposableCups >= 1) {
```

```
58                  System.out.println("Sorry, not enough water and coffe beans!");
59              } else if (water < 350 && milk >= 75 && coffeBeans >= 20 && disposableCups < 1) {
60                  System.out.println("Sorry, not enough water and disposable cups!");
61              } else if (water >= 350 && milk < 75 && coffeBeans < 20 && disposableCups >= 1) {
62                  System.out.println("Sorry, not enough milk and coffe beans!");
63              } else if (water >= 350 && milk < 75 && coffeBeans >= 20 && disposableCups < 1) {
64                  System.out.println("Sorry, not enough milk and disposable cups!");
65              } else if (water >= 350 && milk >= 75 && coffeBeans < 20 && disposableCups < 1) {
66                  System.out.println("Sorry, not enough coffe beans and disposable cups!");
67              } else if (water < 350 && milk < 75 && coffeBeans < 20 && disposableCups >= 1) {
68                  System.out.println("Sorry, not enough water, milk and coffe beans!");
69              } else if (water < 350 && milk >= 75 && coffeBeans < 20 && disposableCups < 1) {
70                  System.out.println("Sorry, not enough water, coffe beans and disposable cups!");
71              } else if (water < 350 && milk < 75 && coffeBeans >= 20 && disposableCups < 1) {
72                  System.out.println("Sorry, not enough water, milk and disposable cups!");
73              } else if (water < 350 && milk < 75 && coffeBeans < 20 && disposableCups < 1) {
74                  System.out.println("Sorry, not enough resources!");
75              }
76          } else if (coffeChoise == 3) {
77              if (water >= 200 && milk >= 100 && coffeBeans >= 12 && disposableCups >= 1) {
78                  System.out.println("I have enough resources, making you a coffee!");
79              } else if (water < 200 && milk >= 100 && coffeBeans >= 12 && disposableCups >= 1) {
80                  System.out.println("Sorry, not enough water!");
81              } else if (water >= 200 && milk < 100 && coffeBeans >= 12 && disposableCups >= 1) {
82                  System.out.println("Sorry, not enough milk!");
83              } else if (water >= 200 && milk >= 100 && coffeBeans < 12 && disposableCups >= 1) {
84                  System.out.println("Sorry, not enough coffe beans!");
85              } else if (water >= 200 && milk >= 100 && coffeBeans >= 12 && disposableCups < 1) {
86                  System.out.println("Sorry, not enough disposable cups!");
87              } else if (water < 200 && milk < 100 && coffeBeans >= 12 && disposableCups >= 1) {
88                  System.out.println("Sorry, not enough water and milk!");
89              } else if (water < 200 && milk >= 100 && coffeBeans < 12 && disposableCups >= 1) {
90                  System.out.println("Sorry, not enough water and coffe beans!");
91              } else if (water < 200 && milk >= 100 && coffeBeans >= 12 && disposableCups < 1) {
92                  System.out.println("Sorry, not enough water and disposable cups!");
93              } else if (water >= 200 && milk < 100 && coffeBeans < 12 && disposableCups >= 1) {
94                  System.out.println("Sorry, not enough milk and coffe beans!");
95              } else if (water >= 200 && milk < 100 && coffeBeans >= 12 && disposableCups < 1) {
96                  System.out.println("Sorry, not enough milk and disposable cups!");
97              } else if (water >= 200 && milk >= 100 && coffeBeans < 12 && disposableCups < 1) {
98                  System.out.println("Sorry, not enough coffe beans and disposable cups!");
99              } else if (water < 200 && milk < 100 && coffeBeans < 12 && disposableCups >= 1) {
100                 System.out.println("Sorry, not enough water, milk and coffe beans!");
101             } else if (water < 200 && milk >= 100 && coffeBeans < 12 && disposableCups < 1) {
102                 System.out.println("Sorry, not enough water, coffe beans and disposable cups!");
103             } else if (water < 200 && milk < 100 && coffeBeans >= 12 && disposableCups < 1) {
104                 System.out.println("Sorry, not enough water, milk and disposable cups!");
105             } else if (water < 200 && milk < 100 && coffeBeans < 12 && disposableCups < 1) {
106                 System.out.println("Sorry, not enough resources!");
107             }
108         }
109
110     }
111
112     public static void main(String[] args) {
113
114          do {
115             Scanner scanner = new Scanner(System.in);
116             System.out.println("Write action (buy, fill, take, remaining, exit):");
117             String action = scanner.nextLine();
118              System.out.println("");
119
120             switch (action) {
121
122                 case "remaining":
123                     supplyUpdate();
124                     System.out.println("");
125                     break;
126
127                 case "buy":
128                     System.out.println("What do you want to buy? 1 - espresso, 2 - latte, 3 - cappuccino, back - to main menu
129                     String choise = scanner.nextLine();
130
131                     if (choise.length() == 1) {
132                         coffeChoise = Integer.parseInt(choise);
133                     } else {
134                         System.out.println("");
135                         break;
136                     }
137
138                     switch (coffeChoise) {
139                         case 1:
140                             isAvaible();
141                             if (water >= 250 && coffeBeans >= 16 && disposable
142                                 water -= 250;
143                                 coffeBeans -= 16;
```

```
144                             money += 4;
145                             disposableCups -= 1;
146                             System.out.println("");
147                         }
148                         break;
149                     case 2:
150                         isAvaible();
151                         if (water >= 350 && milk >= 75 && coffeBeans >= 20 && disposableCups >= 1) {
152                             water -= 350;
153                             milk -= 75;
154                             coffeBeans -= 20;
155                             money += 7;
156                             disposableCups -= 1;
157                             System.out.println("");
158                         }
159                         break;
160                     case 3:
161                         isAvaible();
162                         if (water >= 200 && milk >= 100 && coffeBeans >= 12 && disposableCups >= 1) {
163                             water -= 200;
164                             milk -= 100;
165                             coffeBeans -= 12;
166                             money += 6;
167                             disposableCups -= 1;
168                             System.out.println("");
169                         }
170                         break;
171
172                         case 4:
173                             System.out.println("");
174                             break;
175
176                         default:
177                             break;
178                     }
179                 break;
180
181
182                 case "fill":
183                     System.out.println("Write how many ml of water do you want to add:");
184                     int waterSupply = scanner.nextInt();
185                     water += waterSupply;
186                     System.out.println("Write how many ml of milk do you want to add: ");
187                     int milkSupply = scanner.nextInt();
188                     milk += milkSupply;
189                     System.out.println("Write how many grams of coffee beans do you want to add: ");
190                     int coffeBeansSupply = scanner.nextInt();
191                     coffeBeans += coffeBeansSupply;
192                     System.out.println("Write how many disposable cups of coffee do you want to add: ");
193                     int disposableCupsSupply = scanner.nextInt();
194                     disposableCups += disposableCupsSupply;
195                     System.out.println("");
196                     break;
197
198                 case "take":
199                     System.out.println("");
200                     System.out.println("I gave you $" + money);
201                     money = 0;
202                     System.out.println("");
203                     break;
204
205                 case "exit":
206                     exit = 0;
207                     break;
208
209                 default:
210                     break;
211
212             }
213
214         } while (exit != 0);
215     }
216 }
```

✓ Correct

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Editor's choice

JB **John Backus** JetBrains Academy Team 4 months ago Report

Code Editor

Java

```
1  package machine;
2
3  import java.util.Scanner;
4
5  public class CoffeeMachine {
6
7      public static void printAmount(int water, int milk, int beans, int cups, int money) {
8          System.out.println("The coffee machine has:");
9          System.out.println(water + " of water");
10         System.out.println(milk + " of milk");
11         System.out.println(beans + " of coffee beans");
12         System.out.println(cups + " of disposable cups");
13         System.out.println(money + " of money");
14     }
15
16     public static boolean isOutOfResources(int water, int milk, int beans, int cups, String option) {
17         if (cups - 1 < 0) {
18             System.out.println("Sorry, not enough disposable cups!");
19             return true;
20         } else {
21             switch (option) {
22                 case "1":
23                     if (water - 250 < 0) {
24                         System.out.println("Sorry, not enough water!");
25                         return true;
26                     }
27                     if (beans - 16 < 0) {
28                         System.out.println("Sorry, not enough coffee beans!");
29                         return true;
30                     }
31                     break;
32                 case "2":
33                     if (water - 350 < 0) {
34                         System.out.println("Sorry, not enough water!");
35                         return true;
36                     }
37                     if (milk - 75 < 0) {
```

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```
                        System.out.println("Sorry, not enough milk!");
                        return true;
                    }
                    if (beans - 20 < 0) {
                        System.out.println("Sorry, not enough coffee beans!");
                        return true;
                    }
                    break;
                case "3":
                    if (water - 200 < 0) {
                        System.out.println("Sorry, not enough water!");
                        return true;
                    }
                    if (milk - 100 < 0) {
                        System.out.println("Sorry, not enough milk!");
                        return true;
                    }
                    if (beans - 12 < 0) {
                        System.out.println("Sorry, not enough coffee beans!");
                        return true;
                    }
                    break;
            }
        }
        return false;
    }

    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        String action;
        boolean on = true;

        int water = 400;
        int milk = 540;
        int beans = 120;
        int cups = 9;
        int money = 550;

        while (on) {
            System.out.println("Write action (buy, fill, take, remaining, exit): ");
            action = scanner.nextLine();
            System.out.println(action);

            switch (action) {
                /* ===== BUY OPTION ==== */
                case "buy":
                    System.out.println("What do you want to buy? 1 - espresso, 2 - latte, 3 - cappuccino, ba
                    String buyOption = scanner.nextLine();

                    if (buyOption.equals("1") || buyOption.equals("2") || buyOption.equals("3")) {
                        if (isOutOfResources(water, milk, beans, cups, buyOption)) {
//System.out.println("MOIÔ");
                            break;
                        } else {
                            System.out.println("I have enough resources, making you a coffee!");
                        }
                    }

                    switch (buyOption) {
                        case "1": //espresso
                            water -= 250;
                            beans -= 16;
                            cups--;
                            money += 4;
                            break;
                        case "2": //latte
                            water -= 350;
                            milk -= 75;
                            beans -= 20;
                            cups--;
                            money += 7;
                            break;
                        case "3": //cappuccino
                            water -= 200;
                            milk -= 100;
                            beans -= 12;
                            cups--;
                            money += 6;
                            break;
                        case "back":
                            break;
                        default:
                            break;
                    }
                    break;
```

```
124                 /* ===== FILL OPTION ==== */
125                 case "fill":
126                     System.out.println("Write how many ml of water do you want to add: ");
127                     water += scanner.nextInt();
128                     System.out.println("Write how many ml of milk do you want to add: ");
129                     milk += scanner.nextInt();
130                     System.out.println("Write how many grams of coffee beans do you want to add: ");
131                     beans += scanner.nextInt();
132                     System.out.println("Write how many disposable cups of coffee do you want to add: ");
133                     cups += scanner.nextInt();
134                     break;
135
136                 /* ===== TAKE OPTION ==== */
137                 case "take":
138                     System.out.println("I gave you $" + money);
139                     money = 0;
140                     break;
141
142                 /* ===== REMAINING OPTION ==== */
143                 case "remaining":
144                     printAmount(water, milk, beans, cups, money);
145                     break;
146
147                 /* ===== REMAINING OPTION ==== */
148                 case "exit":
149                     on = false;
150                     break;
151                 default:
152                     break;
153             }
154         }
155     }
156 }
157
```

✓ Correct

♡ 2 Reply

NC **Nayan Chaudhari** 27 days ago Report

even modertor solution failed, i wasted my 100 jem for solution and getting the same error

♡ 0 Reply

Yash verma 18 days ago Report

check mine, simply and logical:

```
Scanner scanner = new Scanner(System.in);
        int currentWater = 400;
        int currentMilk = 540;
        int currentCoffeeBeans = 120;
```

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Jesús Garcìa less than a minute ago My solution

Code Editor

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Java

```
package machine;
import java.util.Scanner;

public class CoffeeMachine {
    public static int water = 400;
    public static int milk = 540;
    public static int coffeBeans = 120;
    public static int disposableCups = 9;
    public static int money = 550;
    public static String action = "";
    public static int coffeChoise = 0;
    public static int exit = 1;

    public static void supplyUpdate() {
        System.out.println("The coffee machine has:\n" +
                water + " of water\n" +
                milk + " of milk\n" +
                coffeBeans + " of coffe beans\n" +
                disposableCups + " of disposable cups\n" +
                money + " of money");
    }

    public static void isAvaible() {

        if (coffeChoise == 1) {
            if (water >= 250 && coffeBeans >= 16 && disposableCups >= 1) {
                System.out.println("I have enough resources, making you a coffee!");
            } else if (water < 250 && coffeBeans >= 16 && disposableCups >= 1) {
                System.out.println("Sorry, not enough water!");
            } else if (water >= 250 && coffeBeans < 16 && disposableCups >= 1) {
                System.out.println("Sorry, not enough coffe beans!");
            } else if (water >= 250 && coffeBeans >= 16 && disposableCups < 1) {
                System.out.println("Sorry, not enough disposable cups!");
            } else if (water < 250 && coffeBeans < 16 && disposableCups >= 1) {
                System.out.println("Sorry, not enough water and coffe beans!");
            } else if (water < 250 && coffeBeans >= 16 && disposableCups < 1) {
                System.out.println("Sorry, not enough water and disposable cups!");
            } else if (water >= 250 && coffeBeans < 16 && disposableCups < 1) {
                System.out.println("Sorry, not enough coffe beans and disposable cups!");
            } else if (water < 250 && coffeBeans < 16 && disposableCups < 1) {
                System.out.println("Sorry, not enough resources!");
            }

        } else if (coffeChoise == 2) {
            if (water >= 350 && milk >= 75 && coffeBeans >= 20 && disposableCups >= 1) {
                System.out.println("I have enough resources, making you a coffee!");
            } else if (water < 350 && milk >= 75 && coffeBeans >= 20 && disposableCups >= 1) {
                System.out.println("Sorry, not enough water!");
            } else if (water >= 350 && milk < 75 && coffeBeans >= 20 && disposableCups >= 1) {
                System.out.println("Sorry, not enough milk!");
            } else if (water >= 350 && milk >= 75 && coffeBeans < 20 && disposableCups >= 1) {
                System.out.println("Sorry, not enough coffe beans!");
            } else if (water >= 350 && milk >= 75 && coffeBeans >= 20 && disposableCups < 1) {
                System.out.println("Sorry, not enough disposable cups!");
            } else if (water < 350 && milk < 75 && coffeBeans >= 20 && disposableCups >= 1) {
                System.out.println("Sorry, not enough water and milk!");
            } else if (water < 350 && milk >= 75 && coffeBeans < 20 && disposableCups >= 1) {
                System.out.println("Sorry, not enough water and coffe beans!");
            } else if (water < 350 && milk >= 75 && coffeBeans >= 20 && disposableCups < 1) {
                System.out.println("Sorry, not enough water and disposable cups!");
            } else if (water >= 350 && milk < 75 && coffeBeans < 20 && disposableCups >= 1) {
                System.out.println("Sorry, not enough milk and coffe beans!");
            } else if (water >= 350 && milk < 75 && coffeBeans >= 20 && disposableCups < 1) {
                System.out.println("Sorry, not enough milk and disposable cups!");
            } else if (water >= 350 && milk >= 75 && coffeBeans < 20 && disposableCups < 1) {
                System.out.println("Sorry, not enough coffe beans and disposable cups!");
            } else if (water < 350 && milk < 75 && coffeBeans < 20 && disposableCups >= 1) {
                System.out.println("Sorry, not enough water, milk and coffe beans!");
            } else if (water < 350 && milk >= 75 && coffeBeans < 20 && disposableCups < 1) {
                System.out.println("Sorry, not enough water, coffe beans and disposable cups!");
            } else if (water < 350 && milk < 75 && coffeBeans >= 20 && disposableCups < 1) {
                System.out.println("Sorry, not enough water, milk and disposable cups!");
            } else if (water < 350 && milk < 75 && coffeBeans < 20 && disposableCups < 1) {
                System.out.println("Sorry, not enough resources!");
            }
        } else if (coffeChoise == 3) {
            if (water >= 200 && milk >= 100 && coffeBeans >= 12 && disposableCups >= 1) {
                System.out.println("I have enough resources, making you a coffee!");
            } else if (water < 200 && milk >= 100 && coffeBeans >= 12 && disposableCups >= 1) {
                System.out.println("Sorry, not enough water!");
            } else if (water >= 200 && milk < 100 && coffeBeans >= 12 &&
                System.out.println("Sorry, not enough milk!");
            } else if (water >= 200 && milk >= 100 && coffeBeans < 12 &&
                System.out.println("Sorry, not enough coffe beans!");
```

```
                System.out.println("Sorry, not enough coffe beans!");
            } else if (water >= 200 && milk >= 100 && coffeBeans >= 12 && disposableCups < 1) {
                System.out.println("Sorry, not enough disposable cups!");
            } else if (water < 200 && milk < 100 && coffeBeans >= 12 && disposableCups >= 1) {
                System.out.println("Sorry, not enough water and milk!");
            } else if (water < 200 && milk >= 100 && coffeBeans < 12 && disposableCups >= 1) {
                System.out.println("Sorry, not enough water and coffe beans!");
            } else if (water < 200 && milk >= 100 && coffeBeans >= 12 && disposableCups < 1) {
                System.out.println("Sorry, not enough water and disposable cups!");
            } else if (water >= 200 && milk < 100 && coffeBeans < 12 && disposableCups >= 1) {
                System.out.println("Sorry, not enough milk and coffe beans!");
            } else if (water >= 200 && milk < 100 && coffeBeans >= 12 && disposableCups < 1) {
                System.out.println("Sorry, not enough milk and disposable cups!");
            } else if (water >= 200 && milk >= 100 && coffeBeans < 12 && disposableCups < 1) {
                System.out.println("Sorry, not enough coffe beans and disposable cups!");
            } else if (water < 200 && milk < 100 && coffeBeans < 12 && disposableCups >= 1) {
                System.out.println("Sorry, not enough water, milk and coffe beans!");
            } else if (water < 200 && milk >= 100 && coffeBeans < 12 && disposableCups < 1) {
                System.out.println("Sorry, not enough water, coffe beans and disposable cups!");
            } else if (water < 200 && milk < 100 && coffeBeans >= 12 && disposableCups < 1) {
                System.out.println("Sorry, not enough water, milk and disposable cups!");
            } else if (water < 200 && milk < 100 && coffeBeans < 12 && disposableCups < 1) {
                System.out.println("Sorry, not enough resources!");
            }
        }

    }

    public static void main(String[] args) {

        do {
            Scanner scanner = new Scanner(System.in);
            System.out.println("Write action (buy, fill, take, remaining, exit):");
            String action = scanner.nextLine();
             System.out.println("");

            switch (action) {

                case "remaining":
                    supplyUpdate();
                    System.out.println("");
                    break;

                case "buy":
                    System.out.println("What do you want to buy? 1 - espresso, 2 - latte, 3 - cappuccino, ba
                    String choise = scanner.nextLine();

                    if (choise.length() == 1) {
                        coffeChoise = Integer.parseInt(choise);
                    } else {
                        System.out.println("");
                        break;
                    }

                    switch (coffeChoise) {
                        case 1:
                            isAvaible();
                            if (water >= 250 && coffeBeans >= 16 && disposableCups >= 1) {
                                water -= 250;
                                coffeBeans -= 16;
                                money += 4;
                                disposableCups -= 1;
                                System.out.println("");
                            }
                            break;
                        case 2:
                            isAvaible();
                            if (water >= 350 && milk >= 75 && coffeBeans >= 20 && disposableCups >= 1) {
                                water -= 350;
                                milk -= 75;
                                coffeBeans -= 20;
                                money += 7;
                                disposableCups -= 1;
                                System.out.println("");
                            }
                            break;
                        case 3:
                            isAvaible();
                            if (water >= 200 && milk >= 100 && coffeBeans >= 12 && disposableCups >= 1) {
                                water -= 200;
                                milk -= 100;
                                coffeBeans -= 12;
                                money += 6;
                                disposableCups -= 1;
                                System.out.println("");
                            }
                            break;
```

```
                        break;

                    case 4:
                        System.out.println("");
                        break;

                    default:
                        break;
                }
            break;


            case "fill":
                System.out.println("Write how many ml of water do you want to add:");
                int waterSupply = scanner.nextInt();
                water += waterSupply;
                System.out.println("Write how many ml of milk do you want to add: ");
                int milkSupply = scanner.nextInt();
                milk += milkSupply;
                System.out.println("Write how many grams of coffee beans do you want to add: ");
                int coffeBeansSupply = scanner.nextInt();
                coffeBeans += coffeBeansSupply;
                System.out.println("Write how many disposable cups of coffee do you want to add: ");
                int disposableCupsSupply = scanner.nextInt();
                disposableCups += disposableCupsSupply;
                System.out.println("");
                break;

            case "take":
                System.out.println("");
                System.out.println("I gave you $" + money);
```


```

                default:
                    break;

            }

        } while (exit != 0);
    }
}
```

✓ Correct

0 Reply

User 46913581 about 6 hours ago Report

Code Editor

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```
package machine;

import java.util.Scanner;

public class CoffeeMachine {
    int water = 400;
    int milk = 540;
    int beans = 120;
    int cups = 9;
    int money = 550;

    public static void main(String[] args) {
        CoffeeMachine cm = new CoffeeMachine();
        cm.initInteractiveInput();
    }
    public void initInteractiveInput() {
        Scanner in = new Scanner(System.in);
        boolean isExiting = false;
        while(!isExiting) {
            System.out.println();
            System.out.println("Write action (buy, fill, take, remaining, exit):");
            System.out.print("> ");
            String action = in.next();

            isExiting = modifyState(action,in);
        }
        in.close();
    }
    private void printState() {
        System.out.println("The coffee machine has:");
        System.out.println(this.water + " of water");
        System.out.println(this.milk + " of milk");
        System.out.println(this.beans + " of coffee beans");
        System.out.println(this.cups + " of disposable cups");
        System.out.println("$" + this.money + " of money");
    }
    private void fulfillOrder(int water, int milk, int beans, int money) {
        if (cups > 0 && this.water - water >= 0 && this.milk - milk >= 0 && this.beans - beans >= 0) {
            System.out.println("I have enough resources, making you a coffee!");
            this.cups--;
            this.water -= water;
            this.milk -= milk;
            this.beans -= beans;
            this.money += money;
        } else {
            System.out.println("Sorry, not enough " +
                    (cups <= 0 ? "cups" : this.water - water < 0 ? "water" : this.milk - milk < 0 ? "milk" :
                    + "!"
            );
        }
    }
    private boolean modifyState(String action, Scanner in) {
        System.out.println();
        switch (action) {
            case "buy":
                System.out.println("What do you want to buy? 1 - espresso, 2 - latte, 3 - cappuccino, back -
                System.out.print("> ");
                switch (in.next()) {
                    case "1":
                        fulfillOrder(250,0,16,4);
                        break;
                    case "2":
                        fulfillOrder(350,75,20,7);
                        break;
                    case "3":
                        fulfillOrder(200,100,12,6);
                        break;
                    case "back":
                        return false;
                    default:
                        break;
                }
                break;
            case "fill":
                System.out.println("Write how many ml of water do you want to add:");
                System.out.print("> ");
                this.water += in.nextInt();

                System.out.println("Write how many ml of milk do you want to add:");
                System.out.print("> ");
                this.milk += in.nextInt();

                System.out.println("Write how many grams of coffee beans
                System.out.print("> ");
                this.beans += in.nextInt();

```

```
87                 System.out.println("Write how many disposable cups of coffee do you want to add:");
88                 System.out.print("> ");
89                 this.cups += in.nextInt();
90                 break;
91             case "take":
92                 System.out.println("I gave you $" + this.money);
93                 this.money = 0;
94                 break;
95             case "remaining":
96                 this.printState();
97                 break;
98             case "exit":
99                 return true;
100            default:
101                break;
102        }
103        return false;
104    }
105 }
106
```

✓ Correct

♡ 0 Reply

D **DdiavaLL** 1 day ago Report

Code Editor

Java

```
1  package machine;
2  import java.util.Scanner;
3
4  public class CoffeeMachine {
5      public static int water = 400;
6      public static int milk = 540;
7      public static int beans = 120;
8      public static int cups = 9;
9      public static int money = 550;
10
11     // The method checks the number of ingredients for coffee
12     public static String check(int number) {
13         String rez = "";
14         switch (number) {
15             case 1:
16                 if (water < 250) {
17                     rez += "water";
18                 } else if (beans < 16) {
19                     rez += "coffee beans";
20                 } else if (cups < 1) {
21                     rez += "disposable cups";
22                 }
23                 break;
24             case 2:
25                 if (water < 350) {
26                     rez += "water";
27                 } else if (milk < 75) {
28                     rez += "milk";
29                 } else if (beans < 16) {
30                     rez += "coffee beans";
31                 } else if (cups < 1) {
32                     rez += "disposable cups";
33                 }
34                 break;
35             case 3:
36                 if (water < 200) {
37                     rez += "water";
38                 } else if (milk < 100) {
```

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```
39                      rez += "milk";
40                  } else if (beans < 12) {
41                      rez += "coffee beans";
42                  } else if (cups < 1) {
43                      rez += "disposable cups";
44                  }
45                  break;
46              default:
47                  break;
48          }
49          return rez;
50      }
51
52      // The method simulates the purchase of coffee
53      public static void buy(String number) {
54          switch (number) {
55              case "1":
56                  if (check(1).equals("")) {
57                      System.out.println("I have enough resources, making you a coffee!");
58                      water -= 250;
59                      beans -= 16;
60                      money += 4;
61                      cups -= 1;
62                  } else {
63                      System.out.println("Sorry, not enough " + check(1) + "!");
64                  }
65                  break;
66              case "2":
67                  if (check(2).equals("")) {
68                      System.out.println("I have enough resources, making you a coffee!");
69                      water -= 350;
70                      milk -= 75;
71                      beans -= 20;
72                      money += 7;
73                      cups -= 1;
74                  } else {
75                      System.out.println("Sorry, not enough " + check(2) + "!");
76                  }
77                  break;
78              case "3":
79                  if (check(3).equals("")) {
80                      System.out.println("I have enough resources, making you a coffee!");
81                      water -= 200;
82                      milk -= 100;
83                      beans -= 12;
84                      money += 6;
85                      cups -= 1;
86                  } else {
87                      System.out.println("Sorry, not enough " + check(3) + "!");
88                  }
89                  break;
90              case "back":
91                  break;
92              default:
93                  break;
94          }
95      }
96
97      // Method describing the state of the machine
98      public static void state() {
99          System.out.println("\nThe coffee machine has:\n" + water + " of water\n" + milk + " of milk\n" + bea
100     }
101
102     // Method describing filling in the machine
103     public static void fill() {
104         System.out.println("Write how many ml of water do you want to add: ");
105         Scanner scan = new Scanner(System.in);
106         int waterNew = scan.nextInt();
107         water += waterNew;
108
109         System.out.println("Write how many ml of milk do you want to add: ");
110         int milkNew = scan.nextInt();
111         milk += milkNew;
112
113         System.out.println("Write how many grams of coffee beans do you want to add: ");
114         int beansNew = scan.nextInt();
115         beans += beansNew;
116
117         System.out.println("Write how many disposable cups of coffee do you want to add: ");
118         int cupsNew = scan.nextInt();
119         cups += cupsNew;
120     }
121
122     // Method describing taking of money from the machine
123     public static void take() {
124         System.out.print("I gave you $" + money);
```

```
125         money = 0;
126     }
127
128     public static void main(String[] args) {
129         Scanner sc = new Scanner(System.in);
130         String action = "first";
131         while (!action.equals("exit")) {
132             System.out.println("\nWrite action (buy, fill, take, remaining, exit): ");
133             action = sc.nextLine();
134             switch (action) {
135                 case "buy":
136                     System.out.println("What do you want to buy? 1 - espresso, 2 - latte, 3 - cappuccino, ba
137                     String paths = sc.next();
138                     buy(paths);
139                     break;
140                 case "fill":
141                     fill();
142                     break;
143                 case "take":
144                     take();
145                     break;
146                 case "remaining":
147                     state();
148                     break;
149                 default:
150                     break;
151         }
152         }
153     }
154 }
155
```

✓ Correct

0 Reply

zenalc 1 day ago Report

Code Editor

Java

```
1  package machine;
2  import java.util.Scanner;
3
4  public class CoffeeMachine {
5      static Scanner scanner = new Scanner(System.in);
6      static int money = 550;
7      static int cups = 9;
8      static int water = 400;
9      static int milk = 540;
10     static int beans = 120;
11     public static void takeMoney() {
12         System.out.println("I gave you $" + money);
13         money = 0;
14     }
15
16     public static void info() {
17         System.out.println("The coffee machine has:");
18         System.out.println(milk + " of milk");
19         System.out.println(water + " of water");
20         System.out.println(beans + " of coffee beans");
21         System.out.println(cups + " of disposable cups");
22         System.out.println(money + " of money");
```

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```
    }

    public static void fill() {
        System.out.println("Write how many ml of water do you want to add:");
        water += scanner.nextInt();
        System.out.println("Write how many ml of milk do you want to add:");
        milk += scanner.nextInt();
        System.out.println("Write how many grams of coffee beans do you want to add:");
        beans += scanner.nextInt();
        System.out.println("Write how many disposable cups of coffee do you want to add:");
        cups += scanner.nextInt();
    }

    public static void buyCoffee(int option) {
        --cups;
        boolean success = false;
        int previousWater = water;
        int previousMilk = milk;
        int previousBeans = beans;
        int previousMoney = money;
        switch (option) {
            case 1:
                water -= 250;
                beans -= 16;
                money += 4;
                break;
            case 2:
                water -= 350;
                milk -= 75;
                beans -= 20;
                money += 7;
                break;
            case 3:
                water -= 200;
                milk -= 100;
                beans -= 12;
                money += 6;
                break;
            default:
                ++cups;
                return;
        }
        if (water < 0) {
            System.out.println("Sorry, not enough water!");
        } else if (milk < 0) {
            System.out.println("Sorry, not enough milk!");
        } else if (cups < 0) {
            System.out.println("Sorry, not enough cups!");
        } else if (beans < 0) {
            System.out.println("Sorry, not enough beans!");
        } else {
            System.out.println("I have enough resources, making you a coffee!");
            success = true;
        }
        if (!success) {
            water = previousWater;
            milk = previousMilk;
            beans = previousBeans;
            ++cups;
        }
    }


    public static void main(String[] args) {
        String action = "";
        do {
            System.out.println("Write action (buy, fill, take, remaining, exit):");
            action = scanner.next();
            switch (action) {
                case "fill":
                    fill();
                    break;
                case "buy":
                    System.out.println("What do you want to buy? 1 - espresso, 2 - latte, 3 - cappuccino: ");
                    String coffeeSelection = scanner.next();
                    if (coffeeSelection.equals("back")) {
                        break;
                    }
                    buyCoffee(Integer.parseInt(coffeeSelection));
                    break;
                case "take":
                    takeMoney();
                    break;
                case "remaining":
                    info();
                    break;
```

```
109                 case "exit":
110                     break;
111                 default:
112                     System.out.println("I didn't quite understand that.");
113                     break;
114             }
115         } while (!action.equals("exit"));
116     }
117 }
118
```

✓ Correct

♡ 0 Reply

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