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1  import static java.lang.System.*;
2  import java.util.Scanner;
3
4  public class Runner {
5      private static final String[] sandwichTypes = {"Turkey Sandwich", "Ham Sandwich",
6      "Salmon Sandwich", "PB & J", "Chicken Sandwich"};
7      private static final double[] sandwichPrices = {15.99, 15.99, 18.99, 12.99, 15.99};
8      private static final String[] saladTypes = {"Spinach Salad", "Egg Salad", "Fruit
9      Salad", "Romane Salad", "Ceaser Salad"};
10     private static final double[] saladPrices = {9.99, 11.99, 7.99, 8.99, 10.99};
11     private static final String[] drinkTypes = {"Coke", "Sprite", "Water", "Gatorade",
12     "Fanta"};
13     private static final double[] drinkPrices = {2.99, 2.99, 1.99, 3.99, 2.99};
14
15     public static void main(String[] args) {
16         out.println("Waiter: Welcome to the lunch counter");
17         out.println("Waiter: What would you like today?\n" +
18             "We have our special deal today, where you can buy a sandwich,
19             salad, and a drink " +
20             "and we will charge you only for the 2 highest priced items");
21         out.println("You : Yeah, I'll take that deal");
22         out.print("Waiter: Would you like to randomize your lunch?\n" +
23             "You : ");
24
25         Scanner keyboard = new Scanner(System.in);
26         Sandwich sandwich = null;
27         Salad salad = null;
28         Drink drink = null;
29
30         boolean validResponse = false;
31         String response = "";
32         while(!validResponse)
33             try{
34                 response = keyboard.next();
35                 if(response.toLowerCase().charAt(0) == 'y' ||
36                     response.toLowerCase().charAt(0) == 'n')
37                     validResponse = true;
38             } catch (Exception e) {
39                 out.println("Waiter: You said a invalid response, please say something
40                 valid");
41             }
42
43         if(response.toLowerCase().charAt(0) == 'y') {
44             sandwich = new Sandwich(sandwichTypes[(int) (Math.random() * 5)],
45             sandwichPrices[(int) (Math.random() * 5)]);
46             salad = new Salad(saladTypes[(int) (Math.random() * 5)],
47             saladPrices[(int) (Math.random() * 5)]);
48             drink = new Drink(drinkTypes[(int) (Math.random() * 5)],
49             drinkPrices[(int) (Math.random() * 5)]);
50         } else {
51             out.println("Waiter: Then please chose a sandwich, here is our sandwich
52             menu, you may choose to type the item or the number");
53             out.print("Menu : ");
54             String menu = "";
55             for(int i = 0; i < 5; i++) {
56                 menu += (i + 1) + ": ";
57                 menu += sandwichTypes[i] + " - ";
58                 menu += sandwichPrices[i] + " \n ";
59             }
60             out.print("\n " + menu);
61             out.print("You : ");
62
63             validResponse = false;
64             response = "";
65             while(!validResponse) { //SANDWICH
66                 try{

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57         response = keyboard.next();
58     } catch (Exception e) {
59         out.println("Waiter: You said a invalid response, please say
        something valid\n" +
60             "You    : ");
61         keyboard.next();
62     }
63
64     try{
65         if(Integer.parseInt(response) < 6 && Integer.parseInt(response) >
            0)
66             switch(Integer.parseInt(response)) {
67                 case 1:
68                     sandwich = new Sandwich(sandwichTypes[0],
                        sandwichPrices[0]);
69                     validResponse = true;
70                     break;
71                 case 2:
72                     sandwich = new Sandwich(sandwichTypes[1],
                        sandwichPrices[1]);
73                     validResponse = true;
74                     break;
75                 case 3:
76                     sandwich = new Sandwich(sandwichTypes[2],
                        sandwichPrices[2]);
77                     validResponse = true;
78                     break;
79                 case 4:
80                     sandwich = new Sandwich(sandwichTypes[3],
                        sandwichPrices[3]);
81                     validResponse = true;
82                     break;
83                 case 5:
84                     sandwich = new Sandwich(sandwichTypes[4],
                        sandwichPrices[4]);
85                     validResponse = true;
86                     break;
87                 default:
88                     out.println("Waiter: DOC, HES GOT A CASE OF BROKEN
                        CODE. GET THE CRASH CARD, STAT");
89             }
90         else
91             out.println("Waiter: You entered a wrong number, please pick
                again" +
92                 "You    : ");
93     } catch (Exception e) {
94         keyboard.next();
95         for(int i = 0; i < sandwichTypes.length; i++)
96             if(sandwichTypes[i].equals(response)) {
97                 sandwich = new Sandwich(sandwichTypes[i],
                    sandwichPrices[i]);
98                 validResponse = true;
99             } else
100                 out.println("Waiter: You said an invalid response, please
                    say somthing valid");
101     }
102 }
103
104 out.println("Waiter: Then please chose a salad, here is our salad menu, you
    may choose to type the item or the number");
105 out.print("Menu : ");
106 menu = "";
107 for(int i = 0; i < 5; i++) {
108     menu += (i + 1) + ": ";
109     menu += saladTypes[i] + " - ";
110     menu += saladPrices[i] + " \n ";

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111         }
112         out.print("\n " + menu);
113         out.print("You   : ");
114
115         validResponse = false;
116         response = "";
117         while (!validResponse) { //SALAD
118             try{
119                 response = keyboard.next();
120             } catch (Exception e) {
121                 out.println("Waiter: You said a invalid response, please say
122                     something valid" +
123                     "You   : ");
124             }
125
126             try{
127                 Integer.parseInt(response);
128                 if (Integer.parseInt(response) < 6 && Integer.parseInt(response) >
129                     0)
130                     switch (Integer.parseInt(response)) {
131                         case 1:
132                             salad = new Salad(saladTypes[0], saladPrices[0]);
133                             validResponse = true;
134                             break;
135                         case 2:
136                             salad = new Salad(saladTypes[1], saladPrices[1]);
137                             validResponse = true;
138                             break;
139                         case 3:
140                             salad = new Salad(saladTypes[2], saladPrices[2]);
141                             validResponse = true;
142                             break;
143                         case 4:
144                             salad = new Salad(saladTypes[3], saladPrices[3]);
145                             validResponse = true;
146                             break;
147                         case 5:
148                             salad = new Salad(saladTypes[4], saladPrices[4]);
149                             validResponse = true;
150                             break;
151                         default:
152                             out.println("Waiter: DOC, HES GOT A CASE OF BROKEN
153                                 CODE. GET THE CRASH CARD, STAT");
154                     }
155             } else
156                 out.println("Waiter: You entered a wrong number, please pick
157                     again");
158         } catch (Exception e) {
159             for (int i = 0; i < saladTypes.length; i++)
160                 if (saladTypes[i].equals(response)) {
161                     salad = new Salad(saladTypes[i], saladPrices[i]);
162                     validResponse = true;
163                 } else
164                     out.println("Waiter: You said an invalid response, please
165                         say something valid");
166         }
167         keyboard.next();
168     }
169
170     out.println("Waiter: then please chose a drink, here is our drink menu, you
171         may choose to type the item or the number");
172     out.print("Menu   : ");
173     menu = "";
174     for (int i = 0; i < 5; i++) {
175         menu += (i + 1) + ": ";
176         menu += drinkTypes[i] + " - ";
177     }

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```

171         menu += drinkPrices[i] + " \n ";
172     }
173     out.print("\n " + menu);
174     out.print("You   : ");
175
176     validResponse = false;
177     response = "";
178     while(!validResponse) { //DRINK
179         try{
180             response = keyboard.next();
181         } catch (Exception e) {
182             out.println("Waiter: You said a invalid response, please say
                something valid");
183         }
184
185         try{
186             Integer.parseInt(response);
187             if (Integer.parseInt(response) < 6 && Integer.parseInt(response) >
                0)
188                 switch (Integer.parseInt(response)) {
189                     case 1:
190                         drink = new Drink(drinkTypes[0], drinkPrices[0]);
191                         validResponse = true;
192                         break;
193                     case 2:
194                         drink = new Drink(drinkTypes[1], drinkPrices[1]);
195                         validResponse = true;
196                         break;
197                     case 3:
198                         drink = new Drink(drinkTypes[2], drinkPrices[2]);
199                         validResponse = true;
200                         break;
201                     case 4:
202                         drink = new Drink(drinkTypes[3], drinkPrices[3]);
203                         validResponse = true;
204                         break;
205                     case 5:
206                         drink = new Drink(drinkTypes[4], drinkPrices[4]);
207                         validResponse = true;
208                         break;
209                     default:
210                         out.println("Waiter: DOC, HES GOT A CASE OF BROKEN
                CODE. GET THE CRASH CARD, STAT");
211                 }
212             else
213                 out.println("Waiter: You entered a wrong number, please pick
                again" +
214                             "You   : ");
215         } catch (Exception e) {
216             for (int i = 0; i < drinkTypes.length; i++)
217                 if (drinkTypes[i].equals(response)) {
218                     drink = new Drink(drinkTypes[i], drinkPrices[i]);
219                     validResponse = true;
220                 } else
221                     out.println("Waiter: You said an invalid response, please
                say somthing valid");
222             keyboard.next();
223         }
224     }
225 }
226
227 Trio trio = new Trio(sandwich, salad, drink);
228 try{
229     out.println(trio.getName() + " costs $" + String.format("%.2f",
        trio.getPrice()));
230 } catch (Exception e) {

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```
231         }
232     }
233     out.println("Thank you for comming to our lunch counter. Bye!");
234 }
235 }
```