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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     public static void main( String[] args ) {
15         out.println("Waiter: Welcome to the lunch counter");
16         out.println("Waiter: What would you like today?\n" +
17             "We have our special deal today, where you can buy a sandwich,
18             salad, and a drink" +
19             "and we will charge you only for the 2 highest priced items\n");
20         out.println("You : Yeah, I'll take that deal");
21         out.print("Waiter: Would you like to randomize your lunch?\n" +
22             "You : ");
23
24         Scanner keyboard = new Scanner(System.in);
25         Sandwich sandwich = null;
26         Salad salad = null;
27         Drink drink = null;
28
29         boolean validResponse = false;
30         String response = "";
31         while(!validResponse)
32             try{
33                 response = keyboard.next();
34                 if (response.toLowerCase().charAt(0) == 'y' ||
35                     response.toLowerCase().charAt(0) == 'n')
36                     validResponse = true;
37             } catch (Exception e) {
38                 out.println("Waiter: You said a invalid response, please say something
39                 valid");
40             }
41
42         if (response.toLowerCase().charAt(0) == 'y') {
43             sandwich = new Sandwich(sandwichTypes[(int) (Math.random() * 5)],
44             sandwichPrices[(int) (Math.random() * 5)]);
45             salad = new Salad(saladTypes[(int) (Math.random() * 5)],
46             saladPrices[(int) (Math.random() * 5)]);
47             drink = new Drink(drinkTypes[(int) (Math.random() * 5)],
48             drinkPrices[(int) (Math.random() * 5)]);
49         } else {
50             out.println("Waiter: then please chose a sandwiches, here is our sandwich
51             menu, you may choose to type the item or the number");
52             out.print("Menu : ");
53             String menu = "";
54             for (int i = 0; i < 5; i++) {
55                 menu += (i + 1) + ": ";
56                 menu += sandwichTypes[i] + " - ";
57                 menu += sandwichPrices[i] + " \n ";
58             }
59             out.println("\n " + menu);
60             out.print("You : ");
61
62             validResponse = false;
63             response = "";
64             while(!validResponse) { //SANDWICH
65                 try{
66                     response = keyboard.next();

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

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

```

```

172         out.print("You   : ");
173
174         validResponse = false;
175         response = "";
176         while(!validResponse) { //DRINK
177             try{
178                 response = keyboard.next();
179             } catch (Exception e) {
180                 out.println("Waiter: You said a invalid response, please say
                    something valid");
181             }
182
183             try{
184                 Integer.parseInt(response);
185                 if (Integer.parseInt(response) < 6 && Integer.parseInt(response) >
                    0)
186                     switch (Integer.parseInt(response)) {
187                         case 1:
188                             drink = new Drink(drinkTypes[0], drinkPrices[0]);
189                             validResponse = true;
190                             break;
191                         case 2:
192                             drink = new Drink(drinkTypes[1], drinkPrices[1]);
193                             validResponse = true;
194                             break;
195                         case 3:
196                             drink = new Drink(drinkTypes[2], drinkPrices[2]);
197                             validResponse = true;
198                             break;
199                         case 4:
200                             drink = new Drink(drinkTypes[3], drinkPrices[3]);
201                             validResponse = true;
202                             break;
203                         case 5:
204                             drink = new Drink(drinkTypes[4], drinkPrices[4]);
205                             validResponse = true;
206                             break;
207                         default:
208                             out.println("Waiter: DOC, HES GOT A CASE OF BROKEN
                    CODE. GET THE CRASH CARD, STAT");
209                     }
210                 else
211                     out.println("Waiter: You entered a wrong number, please pick
                    again");
212             } catch (Exception e) {
213                 int p = -1;
214                 for (int i = 0; i < drinkTypes.length; i++)
215                     if (drinkTypes[i].equals(response))
216                         p = i;
217                 else
218                     out.println("Waiter: You said an invalid response, please
                    say something valid");
219
220                 drink = new Drink(drinkTypes[p], drinkPrices[p]);
221             }
222         }
223     }
224
225     Trio trio = new Trio(sandwich, salad, drink);
226     try{
227         out.println(trio.getName() + " costs $" + trio.getPrice());
228     } catch (Exception e) {
229     }
230
231     out.println("Thank you for comming to our lunch counter. Bye!");
232 }

```

233 }