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

```
57                  } catch( Exception e ) {
58                      out.println("Waiter: You said a invalid response, please say
                        something valid");
59                  }
60
61                  try{
62                      Integer.parseInt(response);
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 = -1;
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
98                      sandwich = new Sandwich( sandwichTypes[p], sandwichPrices[p] );
99                  }
100             }
101
102             validResponse = false;
103             response = "";
104             while(!validResponse) { //SALAD
105                 try{
106                     response = keyboard.next();
107                 } catch( Exception e ) {
108                     out.println("Waiter: You said a invalid response, please say
                        something valid");
109                 }
110
111                 try{
```

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

```
172                                     break;
173                                 case 3:
174                                     drink = new Drink( drinkTypes[2], drinkPrices[2] );
175                                     validResponse = true;
176                                     break;
177                                 case 4:
178                                     drink = new Drink( drinkTypes[3], drinkPrices[3] );
179                                     validResponse = true;
180                                     break;
181                                 case 5:
182                                     drink = new Drink( drinkTypes[4], drinkPrices[4] );
183                                     validResponse = true;
184                                     break;
185                                 default:
186                                     out.println("Waiter: DOC, HES GOT A CASE OF BROKEN
                                        CODE. GET THE CRASH CARD, STAT");
187                             }
188                         else
189                             out.println("Waiter: You entered a wrong number, please pick
                                again");
190                     } catch( Exception e ) {
191                         int p = -1;
192                         for( int i = 0; i < drinkTypes.length; i++ )
193                             if( drinkTypes[i].equals(response) )
194                                 p = i;
195                             else
196                                 out.println("Waiter: You said an invalid response, please
                                    say somthing valid");
197
198                         drink = new Drink( drinkTypes[p], drinkPrices[p] );
199                     }
200                 }
201             }
202
203             Trio trio = new Trio( sandwich, salad, drink );
204             try{
205                 out.println( trio.getName() + " costs $" + trio.getPrice() );
206             } catch( Exception e ) {
207             }
208
209             out.println("Thank you for comming to our lunch counter. Bye!");
210         }
211     }
```