

Team-based Project: Release # 3

Design pattern-Iterator Pattern

User selects menu (choice 0), iterator gives access to elements of a collective object in a sequence. This, without revealing the core structure and implementation of this object. It can be used to display different menu items in the array.

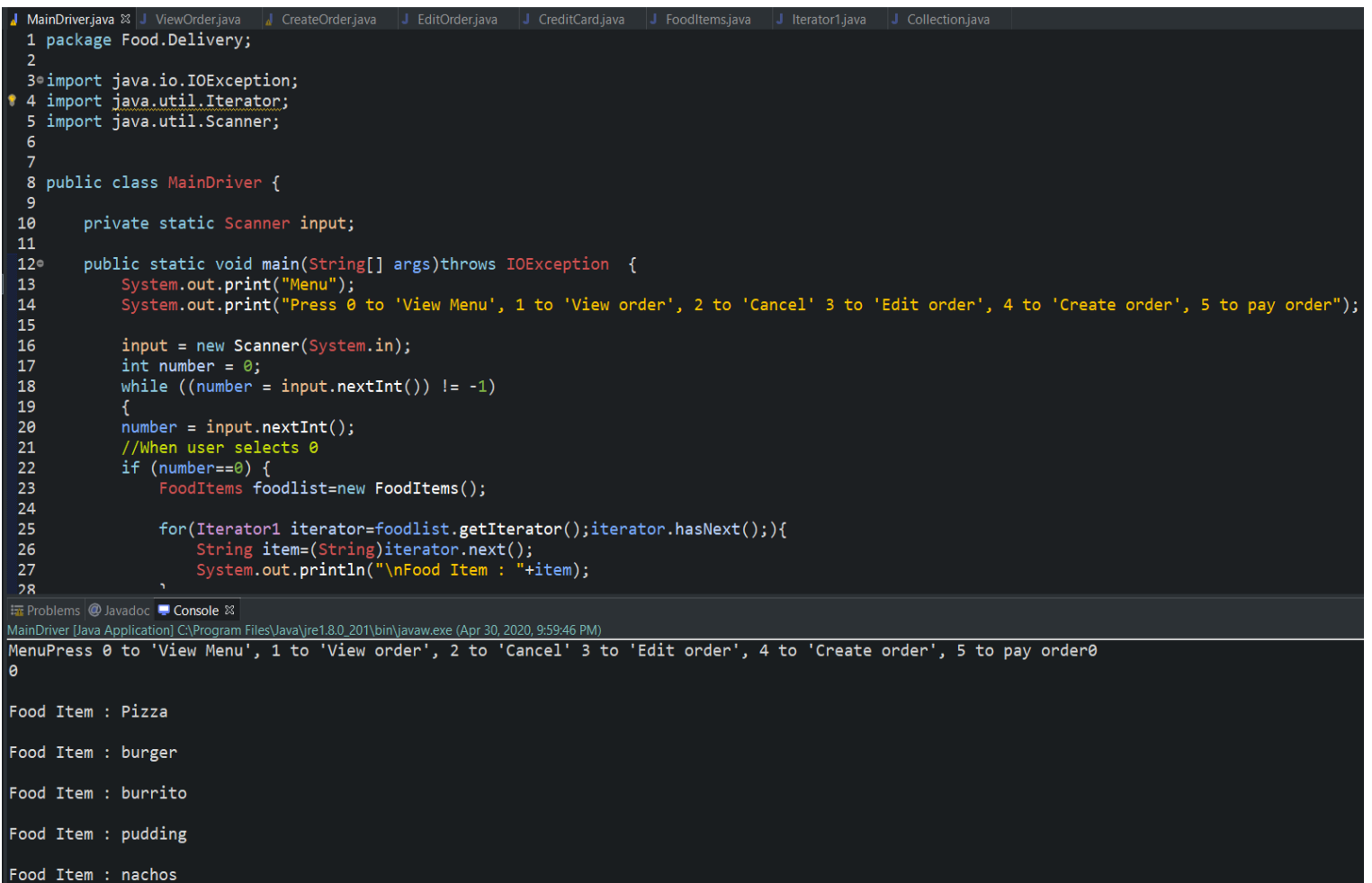
Location in code:

The iterator pattern is executed in the "MainDriver.java" file--> (Line 23 - 27)

The iterator interface can be found under "interator1.java".

The container interface is located at "Collection.java".

The implementation of collection interface and class for "FoodItems" can be seen at "FoodItems.java".



```
1 package Food.Delivery;
2
3 import java.io.IOException;
4 import java.util.Iterator;
5 import java.util.Scanner;
6
7
8 public class MainDriver {
9
10     private static Scanner input;
11
12     public static void main(String[] args) throws IOException {
13         System.out.print("Menu");
14         System.out.print("Press 0 to 'View Menu', 1 to 'View order', 2 to 'Cancel' 3 to 'Edit order', 4 to 'Create order', 5 to pay order");
15
16         input = new Scanner(System.in);
17         int number = 0;
18         while ((number = input.nextInt()) != -1)
19         {
20             number = input.nextInt();
21             //When user selects 0
22             if (number==0) {
23                 FoodItems foodlist=new FoodItems();
24
25                 for(Iterator1 iterator=foodlist.getIterator();iterator.hasNext();){
26                     String item=(String)iterator.next();
27                     System.out.println("\nFood Item : "+item);
28                 }
29             }
30         }
31     }
32 }
```

Problems Javadoc Console

MainDriver [Java Application] C:\Program Files\Java\jre1.8.0_201\bin\javaw.exe (Apr 30, 2020, 9:59:46 PM)

MenuPress 0 to 'View Menu', 1 to 'View order', 2 to 'Cancel' 3 to 'Edit order', 4 to 'Create order', 5 to pay order0

0

Food Item : Pizza

Food Item : burger

Food Item : burrito

Food Item : pudding

Food Item : nachos