



SEMESTRE MAYO- AGOSTO

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NRC: 14575

Activity: HW08 – Collection and chickens.csv

```
public static void createChickens() throws IOException {
    Scanner scanner = new Scanner(System.in);

    System.out.println("Chicken id: ");
    int id = scanner.nextInt();
    scanner.nextLine();
    System.out.println("Chicken name: ");
    String name = scanner.nextLine();
    System.out.println("Chicken color: ");
    String color = scanner.nextLine();
    // ... (rest of the code)
}
```

Output - ChickenFarm (run)

```
Hello Chickens from the simulator
My name is --> Jefferson David Yépez Morán
poop --> ec.edu.espe.chickenfarm.model.Poop@5b486cf9
egg --> ec.edu.espe.chickenfarm.model.Egg@82f4d3709
chicken --> Chicken(id=1, name=Lucy, color=Brown, age=2, isMolting=true, BornOnDay=24, BornOnMonth=11, BornOnYear=2022)
----- Chicken Menu -----
1.- Create new chicken
2.- Display chickens
3.- Exit
Select an option (1-3): 2
Chicken(id=1, name=Juan, color=Brown, age=19, isMolting=true, BornOnDay=24, BornOnMonth=11, BornOnYear=2022)
Chicken(id=2, name=Felipe, color=Black, age=43, isMolting=false, BornOnDay=12, BornOnMonth=10, BornOnYear=2021)
Chicken(id=3, name=Fabr, color=Black, age=21, isMolting=true, BornOnDay=12, BornOnMonth=10, BornOnYear=2021)
Chicken(id=4, name=Mateo, color=Brown, age=34, isMolting=true, BornOnDay=12, BornOnMonth=10, BornOnYear=2021)
Chicken(id=5, name=Edison, color=Black, age=20, isMolting=true, BornOnDay=12, BornOnMonth=10, BornOnYear=2021)
Chicken(id=6, name=Mishell, color=White, age=19, isMolting=true, BornOnDay=12, BornOnMonth=10, BornOnYear=2021)
Chicken(id=7, name=Edison, color=White, age=45, isMolting=true, BornOnDay=12, BornOnMonth=10, BornOnYear=2021)
----- Chicken Menu -----
1.- Create new chicken
2.- Display chickens
3.- Exit
Select an option (1-3):
```

```
package ec.edu.espe.chickenfarm.view;

import ec.edu.espe.chickenfarm.model.Chicken;
import ec.edu.espe.chickenfarm.model.Egg;
import ec.edu.espe.chickenfarm.model.Poop;
import java.util.Scanner;
import java.io.PrintWriter;
import java.io.IOException;
import java.io.BufferedReader;
import java.io.BufferedWriter;
import java.io.FileReader;
import java.time.LocalDate;

/**
 *
 * @author Jefferson David Yépez Morán, Bit Coders, DOCC -ESPE
 */
public class ChickenFarmSystem {

    public static void main(String[] args) throws IOException {
        Poop poop = new Poop();
        Egg egg = new Egg();
        Chicken chicken = new Chicken(id=1, name="Lucy", color="Brown", age=2, isMolting: true, BornOnDay: 24, BornOnMonth: 11, BornOnYear: 2022);
        Chicken chicken2 = new Chicken(id=2, name="Juan", color="Black", age=3, isMolting: true, BornOnDay: 12, BornOnMonth: 10, BornOnYear: 2021);

        System.out.println("Hello Chickens from the simulator");
        System.out.println("My name is --> Jefferson David Yépez Morán");
        System.out.println("poop --> " + poop);
        System.out.println("egg --> " + egg);
        System.out.println("chicken --> " + chicken);
        System.out.println("chicken2 --> " + chicken2);

        menu();
    }
}
```



The screenshot shows an IDE with the following components:

- Top Bar:** File, Edit, View, Navigating, Source, Refactor, Run, Debug, Profile, Tools, Window, Help.
- Search Bar:** Search (Ctrl-H)
- Project Explorer (Left):**
 - ChickenFarm
 - Source Packages
 - chickenfarm
 - er.chickenpkg.chicken
 - er.chickenpkg.chicken
 - Chicken.java
 - ChickenCoo.java
 - ChickenFarm.java
 - Egg.java
 - Poop.java
 - er.chickenpkg.chicken
 - ChickenFarm.java
 - Test Packages
 - Libraries
 - Test Libraries
- Code Editor (Center):**

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102         fields[2],
103         age: Integer.parseInt(fields[3]),
104         isMolting: Boolean.parseBoolean(fields[4]),
105         BornOnDay: Integer.parseInt(fields[5]),
106         BornOnMonth: Integer.parseInt(fields[6]),
107         BornOnYear: Integer.parseInt(fields[7])
108     );
109     System.out.println(x: chicken);
110 }
111 } catch (IOException e) {
112     System.out.println("Error reading CSV file: " + e.getMessage());
113 }
114 }
115
116
117 public static int calculateDate(int daysBirth, int monthBirth, int yearBirth){
118     LocalDate currentDate = LocalDate.now();
119     int currentDay = currentDate.getDayOfMonth();
120     int currentMonth = currentDate.getMonthValue();
121     int currentYear = currentDate.getYear();
122
123     int daysDifference = currentDay - dayBirth;
124     int monthsDifference = currentMonth - monthBirth;
125     int YearsDifference = currentYear - yearBirth;
126
127     if (daysDifference < 0) {
128         monthsDifference--;
129         daysDifference += 30;
130     }
131     if (monthsDifference < 0) {
132         YearsDifference--;
133         monthsDifference += 12;
134     }
135
136     return YearsDifference;
```

```
134     }
135
136     return YearsDifference;
137 }
138
139 public static void menu() throws IOException {
140     int option = 0;
141     while (option != 3) {
142         Scanner scanner = new Scanner(System.in);
143         System.out.println("----- Chicken Menu -----");
144         System.out.println("1.- Create new chicken");
145         System.out.println("2.- Display chickens");
146         System.out.println("3.- Exit");
147         System.out.print("Select an option (1-3): ");
148         option = scanner.nextInt();
149         switch (option) {
150             case 1:
151                 createChickens();
152                 break;
153             case 2:
154                 displayChickens();
155                 break;
156             case 3:
157                 System.exit(status: 0);
158                 break;
159             default:
160                 System.out.println("Invalid option");
161                 break;
162         }
163     }
164 }
165
166 }
167 }
```



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```
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
ChickenFarm - Apache NetBeans IDE 19
Search (Ctrl-F)

Start Page x Chicken.java x ChickenCoo.java x ChickenFarmer.java x Egg.java x ChickenFarmSystem.java x
Source History
1 package ec.edu.espe.chickenfarm.model;
2
3
4 /**
5  *
6  * @author Jefferson David Yepes Moran, Bit Coders, DOCCO -ESPE
7  */
8 public class Chicken {
9
10     private int id;
11     private String name;
12     private String color;
13     private int age;
14     private boolean isMolting;
15     private int BornOnDay;
16     private int BornOnMonth;
17     private int BornOnYear;
18
19     @Override
20     public String toString() {
21         return "Chicken[" + "id" + id + ", name=" + name + ", color=" + color + ", age=" + age + ", isMolting=" + isMolting + ", BornOnDay=" + BornOnDay + ", BornOnMonth=" + BornOnMonth + ", BornOnYear=" + BornOnYear + "]";
22     }
23
24     public Chicken(int id, String name, String color, int age, boolean isMolting, int BornOnDay, int BornOnMonth, int BornOnYear) {
25         this.id = id;
26         this.name = name;
27         this.color = color;
28         this.age = age;
29         this.isMolting = isMolting;
30         this.BornOnDay = BornOnDay;
31         this.BornOnMonth = BornOnMonth;
32         this.BornOnYear = BornOnYear;
33     }
34
35
36     public int getId() {
37         return id;
38     }
39
40     public void setId(int id) {
41         this.id = id;
42     }
43
44     public String getName() {
45         return name;
46     }
47
48     public void setName(String name) {
49         this.name = name;
50     }
51
52     public String getColor() {
53         return color;
54     }
55
56     public void setColor(String color) {
57         this.color = color;
58     }
59
60     public int getAge() {
61         return age;
62     }
63
64     public void setAge(int age) {
65         this.age = age;
66     }
67
68     public boolean isMolting() {
69         return isMolting;
70     }
71
72     public void setMolting(boolean isMolting) {
73         this.isMolting = isMolting;
74     }
75
76     public int getBornOnDay() {
77         return BornOnDay;
78     }
79
80     public void setBornOnDay(int BornOnDay) {
81         this.BornOnDay = BornOnDay;
82     }
83
84     public int getBornOnMonth() {
85         return BornOnMonth;
86     }
87
88     public void setBornOnMonth(int BornOnMonth) {
89         this.BornOnMonth = BornOnMonth;
90     }
91
92     public int getBornOnYear() {
93         return BornOnYear;
94     }
95
96     public void setBornOnYear(int BornOnYear) {
97         this.BornOnYear = BornOnYear;
98     }
99
100 }
101
102 public interface IChicken {
103     int getId();
104     void setId(int id);
105     String getName();
106     void setName(String name);
107     String getColor();
108     void setColor(String color);
109     int getAge();
110     void setAge(int age);
111     boolean isMolting();
112     void setMolting(boolean isMolting);
113     int getBornOnDay();
114     void setBornOnDay(int BornOnDay);
115     int getBornOnMonth();
116     void setBornOnMonth(int BornOnMonth);
117     int getBornOnYear();
118     void setBornOnYear(int BornOnYear);
119 }
120
121 public interface IChickenCoo {
122     int getId();
123     void setId(int id);
124     String getName();
125     void setName(String name);
126     String getColor();
127     void setColor(String color);
128     int getAge();
129     void setAge(int age);
130     boolean isMolting();
131     void setMolting(boolean isMolting);
132     int getBornOnDay();
133     void setBornOnDay(int BornOnDay);
134     int getBornOnMonth();
135     void setBornOnMonth(int BornOnMonth);
136     int getBornOnYear();
137     void setBornOnYear(int BornOnYear);
138 }
139
140 public interface IChickenFarmer {
141     int getId();
142     void setId(int id);
143     String getName();
144     void setName(String name);
145     String getColor();
146     void setColor(String color);
147     int getAge();
148     void setAge(int age);
149     boolean isMolting();
150     void setMolting(boolean isMolting);
151     int getBornOnDay();
152     void setBornOnDay(int BornOnDay);
153     int getBornOnMonth();
154     void setBornOnMonth(int BornOnMonth);
155     int getBornOnYear();
156     void setBornOnYear(int BornOnYear);
157 }
158
159 public interface IEgg {
160     int getId();
161     void setId(int id);
162     String getName();
163     void setName(String name);
164     String getColor();
165     void setColor(String color);
166     int getAge();
167     void setAge(int age);
168     boolean isMolting();
169     void setMolting(boolean isMolting);
170     int getBornOnDay();
171     void setBornOnDay(int BornOnDay);
172     int getBornOnMonth();
173     void setBornOnMonth(int BornOnMonth);
174     int getBornOnYear();
175     void setBornOnYear(int BornOnYear);
176 }
177
178 public interface IChickenFarmSystem {
179     int getId();
180     void setId(int id);
181     String getName();
182     void setName(String name);
183     String getColor();
184     void setColor(String color);
185     int getAge();
186     void setAge(int age);
187     boolean isMolting();
188     void setMolting(boolean isMolting);
189     int getBornOnDay();
190     void setBornOnDay(int BornOnDay);
191     int getBornOnMonth();
192     void setBornOnMonth(int BornOnMonth);
193     int getBornOnYear();
194     void setBornOnYear(int BornOnYear);
195 }
196
197 public interface IChickenCooCoo {
198     int getId();
199     void setId(int id);
200     String getName();
201     void setName(String name);
202     String getColor();
203     void setColor(String color);
204     int getAge();
205     void setAge(int age);
206     boolean isMolting();
207     void setMolting(boolean isMolting);
208     int getBornOnDay();
209     void setBornOnDay(int BornOnDay);
210     int getBornOnMonth();
211     void setBornOnMonth(int BornOnMonth);
212     int getBornOnYear();
213     void setBornOnYear(int BornOnYear);
214 }
215
216 public interface IChickenCooFarmer {
217     int getId();
218     void setId(int id);
219     String getName();
220     void setName(String name);
221     String getColor();
222     void setColor(String color);
223     int getAge();
224     void setAge(int age);
225     boolean isMolting();
226     void setMolting(boolean isMolting);
227     int getBornOnDay();
228     void setBornOnDay(int BornOnDay);
229     int getBornOnMonth();
230     void setBornOnMonth(int BornOnMonth);
231     int getBornOnYear();
232     void setBornOnYear(int BornOnYear);
233 }
234
235 public interface IChickenCooFarmSystem {
236     int getId();
237     void setId(int id);
238     String getName();
239     void setName(String name);
240     String getColor();
241     void setColor(String color);
242     int getAge();
243     void setAge(int age);
244     boolean isMolting();
245     void setMolting(boolean isMolting);
246     int getBornOnDay();
247     void setBornOnDay(int BornOnDay);
248     int getBornOnMonth();
249     void setBornOnMonth(int BornOnMonth);
250     int getBornOnYear();
251     void setBornOnYear(int BornOnYear);
252 }
253
254 public interface IChickenCooCooCoo {
255     int getId();
256     void setId(int id);
257     String getName();
258     void setName(String name);
259     String getColor();
260     void setColor(String color);
261     int getAge();
262     void setAge(int age);
263     boolean isMolting();
264     void setMolting(boolean isMolting);
265     int getBornOnDay();
266     void setBornOnDay(int BornOnDay);
267     int getBornOnMonth();
268     void setBornOnMonth(int BornOnMonth);
269     int getBornOnYear();
270     void setBornOnYear(int BornOnYear);
271 }
272
273 public interface IChickenCooCooFarmer {
274     int getId();
275     void setId(int id);
276     String getName();
277     void setName(String name);
278     String getColor();
279     void setColor(String color);
280     int getAge();
281     void setAge(int age);
282     boolean isMolting();
283     void setMolting(boolean isMolting);
284     int getBornOnDay();
285     void setBornOnDay(int BornOnDay);
286     int getBornOnMonth();
287     void setBornOnMonth(int BornOnMonth);
288     int getBornOnYear();
289     void setBornOnYear(int BornOnYear);
290 }
291
292 public interface IChickenCooCooFarmSystem {
293     int getId();
294     void setId(int id);
295     String getName();
296     void setName(String name);
297     String getColor();
298     void setColor(String color);
299     int getAge();
300     void setAge(int age);
301     boolean isMolting();
302     void setMolting(boolean isMolting);
303     int getBornOnDay();
304     void setBornOnDay(int BornOnDay);
305     int getBornOnMonth();
306     void setBornOnMonth(int BornOnMonth);
307     int getBornOnYear();
308     void setBornOnYear(int BornOnYear);
309 }
310
311 public interface IChickenCooCooCooCoo {
312     int getId();
313     void setId(int id);
314     String getName();
315     void setName(String name);
316     String getColor();
317     void setColor(String color);
318     int getAge();
319     void setAge(int age);
320     boolean isMolting();
321     void setMolting(boolean isMolting);
322     int getBornOnDay();
323     void setBornOnDay(int BornOnDay);
324     int getBornOnMonth();
325     void setBornOnMonth(int BornOnMonth);
326     int getBornOnYear();
327     void setBornOnYear(int BornOnYear);
328 }
329
330 public interface IChickenCooCooCooFarmer {
331     int getId();
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348
349 public interface IChickenCooCooCooFarmSystem {
350     int getId();
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717     int getAge();
718     void setAge(int age);
719     boolean isMolting();
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721     int getBornOnDay();
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748 public interface IChickenCooCooCooCooCooCooCooCooCooCooFarmSystem {
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765 }
766
767 public interface IChickenCooCooCooCooCooCooCooCooCooCooCooCoo {
768     int getId();
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770     String getName();
771     void setName(String name);
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786 public interface IChickenCooCooCooCooCooCooCooCooCooCooCooFarmer {
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804
805 public interface IChickenCooCooCooCooCooCooCooCooCooCooCooFarmSystem {
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824 public interface IChickenCooCooCooCooCooCooCooCooCooCooCooCooCoo {
825     int getId();
826     void setId(int id);
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839     int getBornOnYear();
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843 public interface IChickenCooCooCooCooCooCooCooCooCooCooCooCooFarmer {
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862 public interface IChickenCooCooCooCooCooCooCooCooCooCooCooCooFarmSystem {
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878     void setBornOnYear(int BornOnYear);
879 }
880
881 public interface IChickenCooCooCooCooCooCooCooCooCooCooCooCooCooCoo {
882     int getId();
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884     String getName();
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886     String getColor();
887     void setColor(String color);
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938 public interface IChickenCooCooCooCooCooCooCooCooCooCooCooCooCooCooCoo {
939     int getId();
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976 public interface IChickenCooCooCooCooCooCooCooCooCooCooCooCooCooCooFarmSystem {
977     int getId();
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994
995 public interface IChickenCooCooCooCooCooCooCooCooCooCooCooCooCooCooCooCoo {
996     int getId();
997     void setId(int id);
998     String getName();
999     void setName(String name);
1000     String getColor();
1001     void setColor(String color);
1002     int getAge();
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1004     boolean isMolting();
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1006     int getBornOnDay();
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1009     void setBornOnMonth(int BornOnMonth);
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1026     void setBornOnDay(int BornOnDay);
1027     int getBornOnMonth();
1028     void setBornOnMonth(int BornOnMonth);
1029     int getBornOnYear();
1030     void setBornOnYear(int BornOnYear);
1031 }
1032
1033 public interface IChickenCooCooCooCooCooCooCooCooCooCooCooCooCooCooCooFarmSystem {
1034     int getId();
1035     void setId(int id);
1036     String getName();
1037     void setName(String name);
1038     String getColor();
1039     void setColor(String color);
1040     int getAge();
1041     void setAge(int age);
1042     boolean isMolting();
1043     void setMolting(boolean isMolting);
1044     int getBornOnDay();
1045     void setBornOnDay(int BornOnDay);
1046     int getBornOnMonth();
1047     void setBornOnMonth(int BornOnMonth);
1048     int getBornOnYear();
1049     void setBornOnYear(int BornOnYear);
1050 }
1051
1052 public interface IChickenCooCooCooCooCooCooCooCooCooCooCooCooCooCooCooCooCoo {
1053     int getId();
1054     void setId(int id);
1055     String getName();
1056     void setName(String name);
1057     String getColor();
1058     void setColor(String color);
1059     int getAge();
1060     void setAge(int age);
1061     boolean isMolting();
1062     void setMolting(boolean isMolting);
1063     int getBornOnDay();
1064     void setBornOnDay(int BornOnDay);
1065     int getBornOnMonth();
1066     void setBornOnMonth(int BornOnMonth);
1067     int getBornOnYear();
1068     void setBornOnYear(int BornOnYear);
1069 }
1070
1071 public interface IChickenCooCooCooCooCooCooCooCooCooCooCooCooCooCooCooCooFarmer {
1072     int getId();
1073     void setId(int id);
1074     String getName();
1075     void setName(String name);
1076     String getColor();
1077     void setColor(String color);
1078     int getAge();
1079     void setAge(int age);
1080     boolean isMolting();
1081     void setMolting(boolean isMolting);
1082     int getBornOnDay();
1083     void setBornOnDay(int BornOnDay);
1084     int getBornOnMonth();
1085     void setBornOnMonth(int BornOnMonth);
1086     int getBornOnYear();
1087     void setBornOnYear(int BornOnYear);
1088 }
1089
1090 public interface IChickenCoo
```