



# ESPE

UNIVERSIDAD DE LAS FUERZAS ARMADAS  
INNOVACIÓN PARA LA EXCELENCIA



## WORKSHOP #15

**NRC:** 14575

**CLASS NAME:** OBJECT ORIENTED PROGRAMMING

**INSTRUCTOR:** EDISON LASCANO

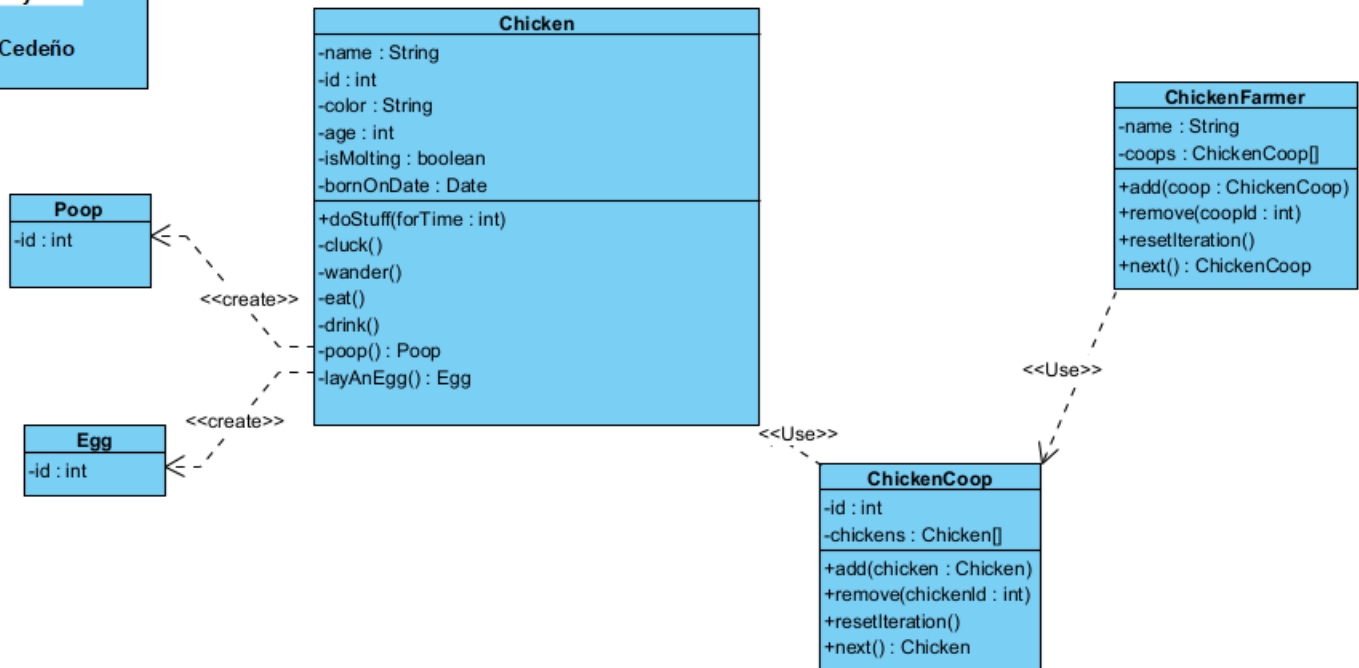
**TOPIC:** AGGREGATION

**NAME:** RONY CEDEÑO

**DATE:** 07/12/2023

## Chicken Farm System

Developer: Rony Cedeño



```
1 package ec.edu.espe.chickenfarms.view;
2
3 import ec.edu.espe.chickenfarms.model.Chicken;
4 import java.util.Date;
5
6 /*
7  * @author Rony Cedeño,INTERBYTE,DCCO ESPE_14575
8  */
9 public class ChickenFarmSystem {
10
11     public static void main(String[] args) {
12
13         int id = 1;
14         String name = "Lucy";
15         String color = "White & Brown";
16         boolean isMolting = true;
17         Date bornOnDate = new Date();
18
19         Chicken chicken = new Chicken(id, name, color, age: id, isMolting, bornOnDay: bornOnDate);
20         System.out.println("Chicken ----> " + chicken);
21
22         chicken.doStuff(forTime: 5);
23     }
24 }
25
26 }
```

```

1 package ec.edu.espe.chickenfarms.model;
2
3 import java.util.Date;
4
5 /*
6  @author Rony Cedeño,INTERBYTE,DCCO ESPE_14575
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 Date bornOnDay;
16
17     @Override
18     public String toString() {
19         return "Chicken{" + "id=" + getId() + ", name=" + getName() + ", color=" + getColor() + ", age=" + getAge() + ", isMolting=" + isMolting() + ", bornOnDay=" + getBornOnDay() + "}";
20     }
21
22     public void doStuff(int forTime) {
23         cluck();
24         wander();
25         eat();
26         drink();
27         poop();
28         layAnEgg();
29     }
30 }

```

```

29     }
30
31     public int computerAge() {
32         return 2;
33     }
34
35     private void cluck() {
36         System.out.println("Chicken " + getId() + " is clucking");
37     }
38
39     private void wander() {
40         System.out.println("Chicken " + getId() + " is wandering");
41     }
42
43     private void eat() {
44         System.out.println("Chicken " + getId() + " is eating");
45     }
46
47     private void drink() {
48         System.out.println("Chicken " + getId() + " is drinking");
49     }
50
51     private Poop poop() {
52         Poop poop;
53         poop = new Poop(id: 1);
54         System.out.println("Chicken " + getId() + " is pooping");
55         return poop;
56     }
57 }

```

```

56     }
57
58     private Egg layAnEgg() {
59         Egg egg;
60         egg = new Egg(id, 1);
61         return egg;
62     }
63
64     public Chicken(int id, String name, String color, int age, boolean isMolting, Date bornOnDay) {
65         this.id = id;
66         this.name = name;
67         this.color = color;
68         this.isMolting = isMolting;
69         this.bornOnDay = bornOnDay;
70         this.age = computerAge();
71     }
72
73     /**
74      * @return the id
75      */
76     public int getId() {
77         return id;
78     }
79
80     /**
81      * @param id the id to set
82      */

```

```

82     */
83     public void setId(int id) {
84         this.id = id;
85     }
86
87     /**
88      * @return the name
89      */
90     public String getName() {
91         return name;
92     }
93
94     /**
95      * @param name the name to set
96      */
97     public void setName(String name) {
98         this.name = name;
99     }
100
101     /**
102      * @return the color
103      */
104     public String getColor() {
105         return color;
106     }
107

```

```

108     /**
109      * @param color the color to set
110      */
111     public void setColor(String color) {
112         this.color = color;
113     }
114
115     /**
116      * @return the age
117      */
118     public int getAge() {
119         return age;
120     }
121
122     /**
123      * @param age the age to set
124      */
125     public void setAge(int age) {
126         this.age = age;
127     }
128
129     /**
130      * @return the isMolting
131      */
132     public boolean isMolting() {
133         return isMolting;
134     }

```

```

135
136  /**
137   * @param isMolting the isMolting to set
138   */
139  public void setIsMolting(boolean isMolting) {
140      this.isMolting = isMolting;
141  }
142
143  /**
144   * @return the bornOnDay
145   */
146  public Date getBornOnDay() {
147      return bornOnDay;
148  }
149
150  /**
151   * @param bornOnDay the bornOnDay to set
152   */
153  public void setBornOnDay(Date bornOnDay) {
154      this.bornOnDay = bornOnDay;
155  }
156
157  }

```

```

run:
Chicken ---> Chicken{id=1, name=Lucy, color=White & Brown, age=2, isMolting=true, bornOnDay=Sun Dec 17 19:06:59 ECT 2023}
Chicken 1 is clucking
Chicken 1 is wandering
Chicken 1 is eating
Chicken 1 is drinking
Chicken 1 is pooping
BUILD SUCCESSFUL (total time: 0 seconds)

```