



**UNIVERSIDAD DE LAS FUERZAS
ARMADAS – “ESPE”**

CLASS NAME: OBJECT ORIENTED PROGRAMMING

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NRC: 14575

HOMEWORK #5

**TOPIC: CHICKEN FARM PROJECT INITIALIZATION
[ARRAYS]**

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Visual Studio Code interface showing two Java files in the `chickenfarm` project.

EXPLORER

- CHICKENFARM
- src
 - main
 - java\ec\...
 - controller
 - model
 - Chicken... 9+
 - Chicken... 1
 - Egg.java 1
 - Poop.java 1
- view
- resources
- test
- target
- pom.xml

ChickenCoop.java

```
1 package ec.edu.espe.chickenfarm.model;
2
3 /**
4  * @author Andrés Romero, NullPointerException, DCCO-ESPE
5  */
6 public class ChickenCoop {
7     private int id;
8     private Chicken[] chickens = new Chicken[20];
9     private int chickensIndex = 0;
10
11     public void add(Chicken chicken) {
12         if (chickensIndex >= chickens.length) {
13             System.out.println("Error: Coops can only have up to "
14                 + chickens.length + "chickens.");
15             return;
16         }
17         chickens[chickensIndex] = chicken;
18         chickensIndex++;
19         System.out.println(x:"Chicken addeed successfully");
20     };
21
22     public void remove(int chickenId) {
23     };
24
25     public void resetIteration() {
26     };
27
28     public Chicken next() {
29         return new Chicken();
30     };
31 }
```

ChickenFarmer.java

```
1 package ec.edu.espe.chickenfarm.model;
2
3 /**
4  * @author Andrés Romero, NullPointerException, DCCO-ESPE
5  */
6 public class ChickenFarmer {
7     private String name;
8     private ChickenCoop[] coops;
9     private int coopsIndex = 0;
10
11     public void add(ChickenCoop coop) {
12         if (coopsIndex >= coops.length) {
13             System.out.println("Error: Farmers can only have up to "
14                 + coops.length + "coops.");
15             return;
16         }
17         coops[coopsIndex] = coop;
18         coopsIndex++;
19         System.out.println(x:"Coop addeed successfully");
20     };
21
22     public void remove(int coopId) {
23     };
24
25     public ChickenCoop next() {
26         return new ChickenCoop();
27     };
28 }
```