

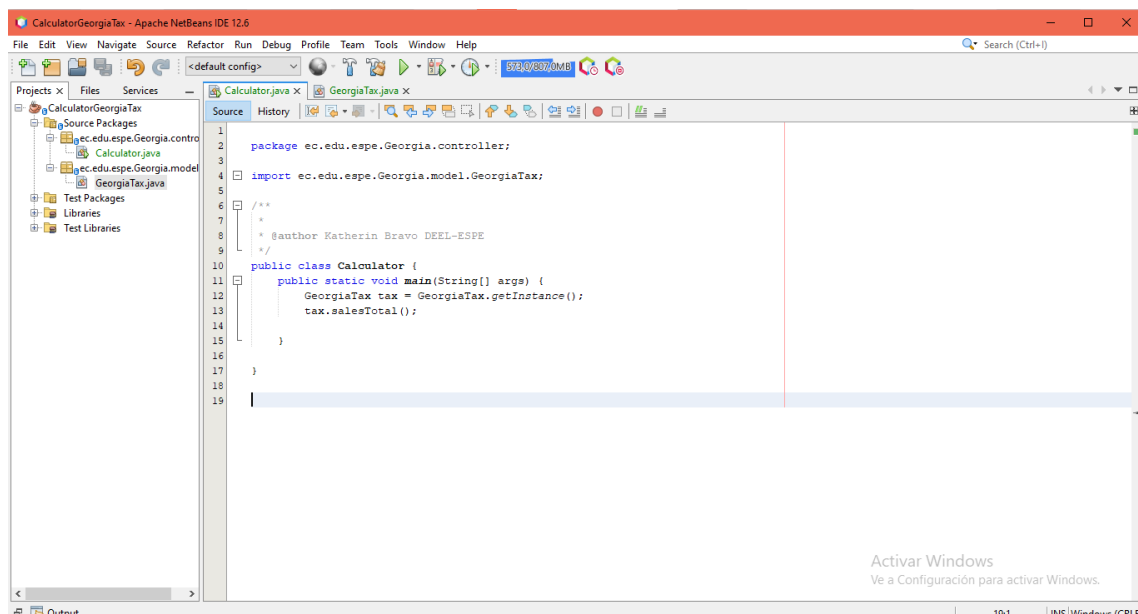
WS34 - SINGLETON PATTERN

DATE: 15th february 2022.

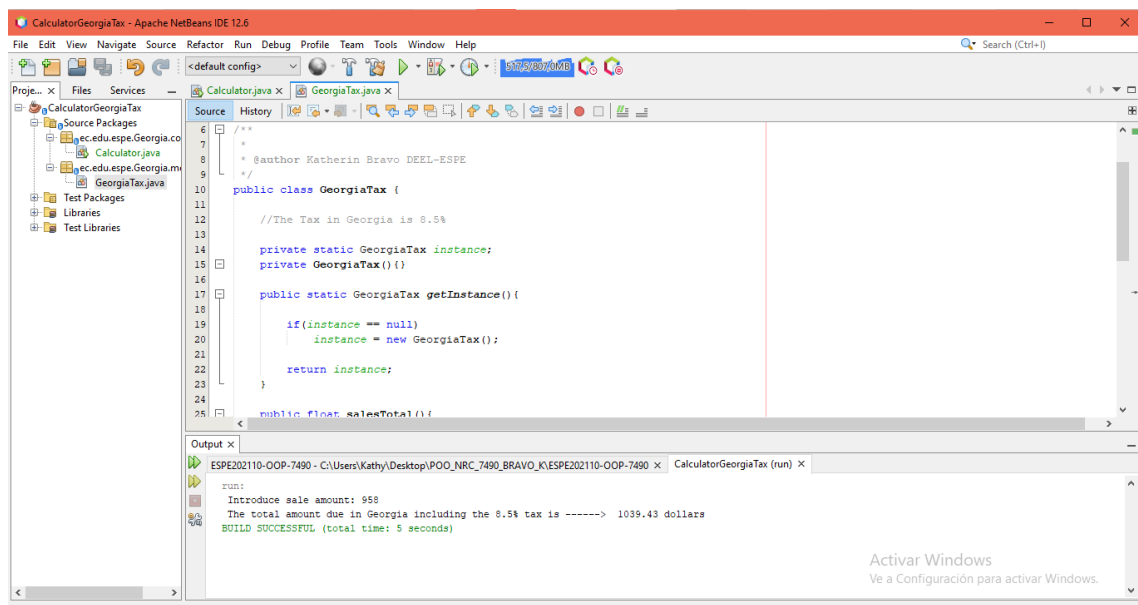
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Singleton Pattern is one of the Gangs of Four Design patterns and it comes under the Creational Design Pattern category, it seems to be a very simple design pattern but when it comes to implementation, it comes with a lot of implementation concerns.

They provide tried and tested templates for solving programming tasks. And it is achieved by creating the desired object in a class and retrieving it as a static instance.



```
1 package ec.edu.espe.Georgia.controller;
2
3 import ec.edu.espe.Georgia.model.GeorgiaTax;
4
5 /**
6  *
7  * @author Katherin Bravo DEEL-ESPE
8  */
9
10 public class Calculator {
11     public static void main(String[] args) {
12         GeorgiaTax tax = GeorgiaTax.getInstance();
13         tax.salesTotal();
14     }
15 }
16
17
18
19
```



```
6 /**
7  *
8  * @author Katherin Bravo DEEL-ESPE
9  */
10
11 public class GeorgiaTax {
12
13     //The Tax in Georgia is 0.5%
14
15     private static GeorgiaTax instance;
16     private GeorgiaTax() {}
17
18     public static GeorgiaTax getInstance() {
19
20         if(instance == null)
21             instance = new GeorgiaTax();
22
23         return instance;
24     }
25
26     public float salesTotal() {
27
28     }
29 }
30
```

Output x

```
ESPE202110-OOP-7490 - C:\Users\Kathy\Desktop\POO_NRC_BRAVO_K\ESPE202110-OOP-7490 x CalculatorGeorgiaTax (run) x
Run:
Introduce sale amount: 958
The total amount due in Georgia including the 0.5% tax is -----> 1039.43 dollars
BUILD SUCCESSFUL (total time: 5 seconds)
```