



SEMESTRE MAYO- AGOSTO

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**Activity:** WS31 – libraries

The screenshot shows an IDE with the following components:

- Project Explorer:** Shows a project named 'IVA' with sub-packages including 'ec.edu.espe.iva.controller', 'ec.edu.espe.iva.model', 'ec.edu.espe.iva.view', 'IvaSystem.java', 'Test Packages', 'Libraries', 'Test Libraries', 'Organivent [main]', and 'Zoo'.
- Source Editor:** Displays the code for 'Tax.java' in the package 'ec.edu.espe.iva.model'. The code includes a package declaration, a comment, and two methods: 'calculateTax' and 'calculateTotalCost'.
- Output Console:** Shows the execution output for 'IVA (run)'. It displays the input '12,3', the calculated tax '1.4760001', and the total cost '13.776'. The build was successful in 2 seconds.

```
1 package ec.edu.espe.iva.model;
2
3 /**
4  * @author user
5  */
6
7 public class Tax {
8     public float calculateTax(float cost) {
9         float tax;
10        tax = (cost * 12)/100;
11        return tax;
12    }
13
14    public float calculateTotalCost(float cost) {
15        float totalCost;
16        totalCost = cost + calculateTax(cost);
17        return totalCost;
18    }
19 }
```

run:  
Enter the cost:  
12,3  
The cost --> 12.3  
The IVA ---> 1.4760001  
The total cost ---> 13.776  
BUILD SUCCESSFUL (total time: 2 seconds)