

Universidad de las Fuerzas Armadas

CLASS NAME: OBJECT ORIENTED PROGRAMMING

TEACHER: EDISON LASCANO

NRC: 14575

WORKSHOP #: 31

TOPIC: Libraries

1. RONY STIVEN CEDEÑO MONTOYA

```
7  * @author RC_558
8  */
9  public class IvaLibraries {
10
11      public static void main(String[] args) {
12          double firstPrice = 10.1;
13
14          System.out.println(x: "-----IVA-----");
15          System.out.println("total price -->" + calculateTotalPrice(firstPrice));
16
17      }
18
19      public static double calculateIva(double firstPrice) {
20          double iva = 0;
21          iva = firstPrice * 0.12;
22          return iva;
23      }
24
25      public static double calculateTotalPrice(double firstPrice) {
26          double total;
27          total = firstPrice + calculateIva(firstPrice);
28          return total;
29      }
30  }
31
```

Variables x Watches x Output x

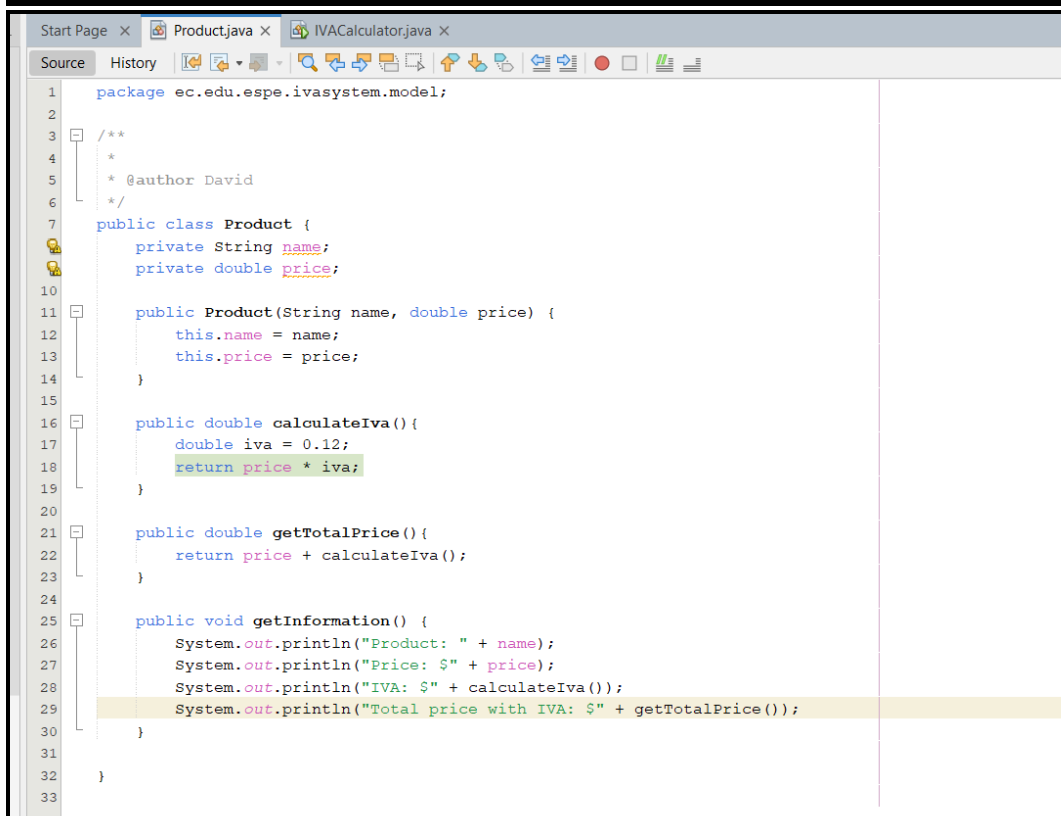
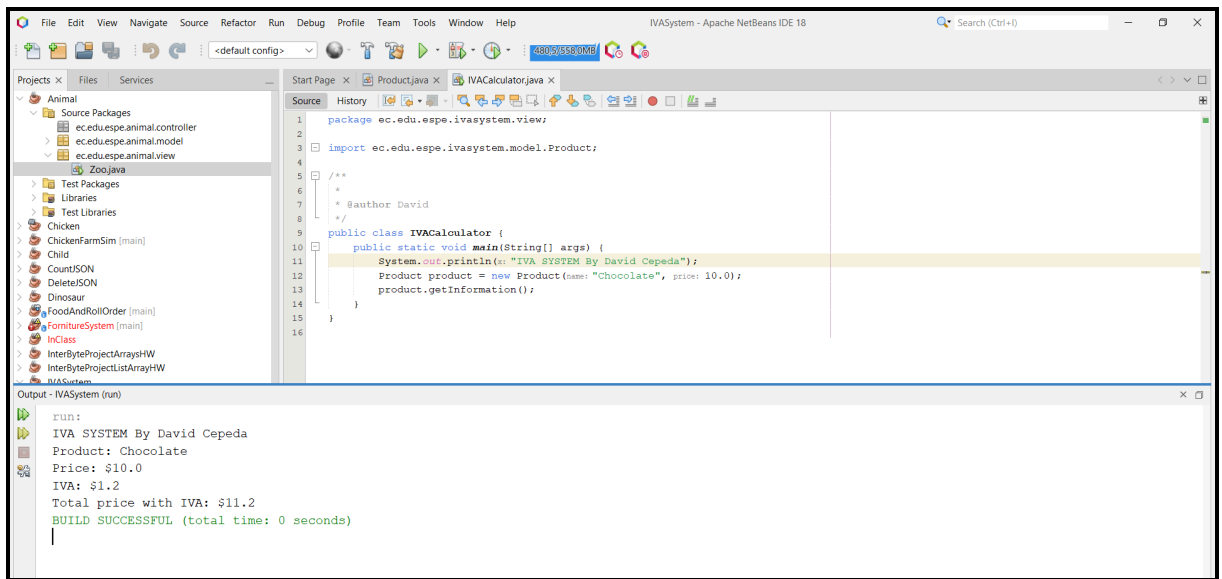
run:

-----IVA-----

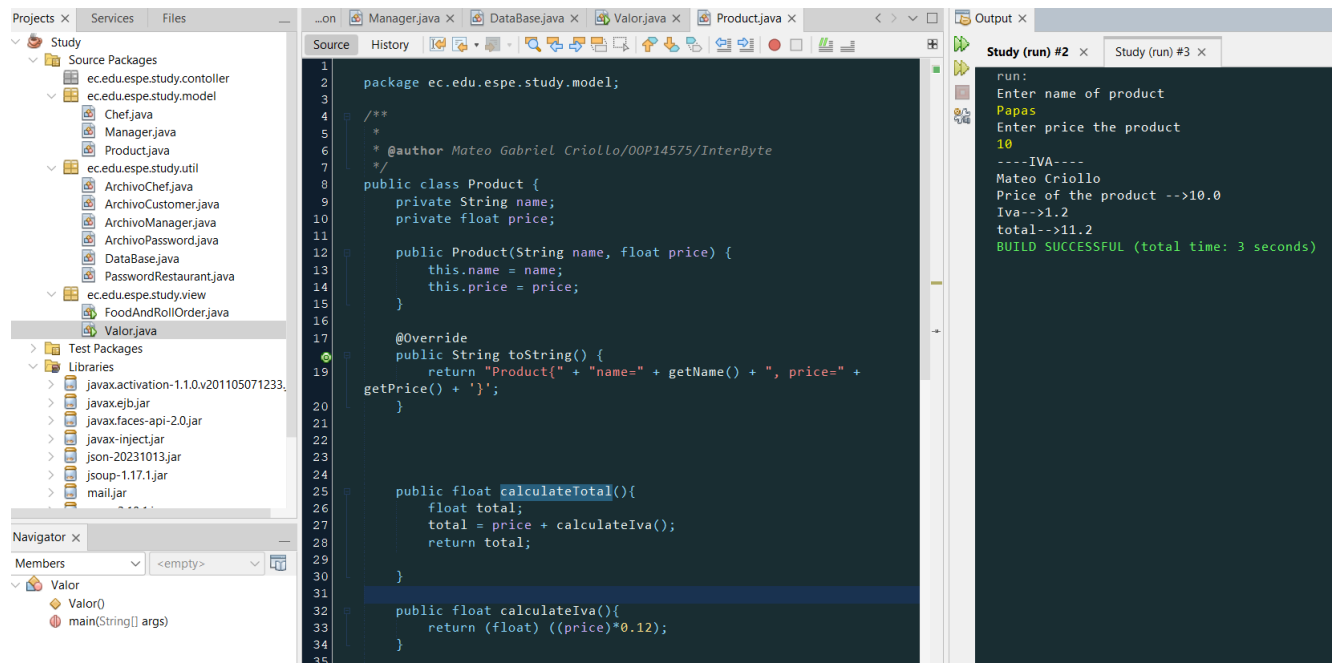
total price -->11.312

BUILD SUCCESSFUL (total time: 2 seconds)

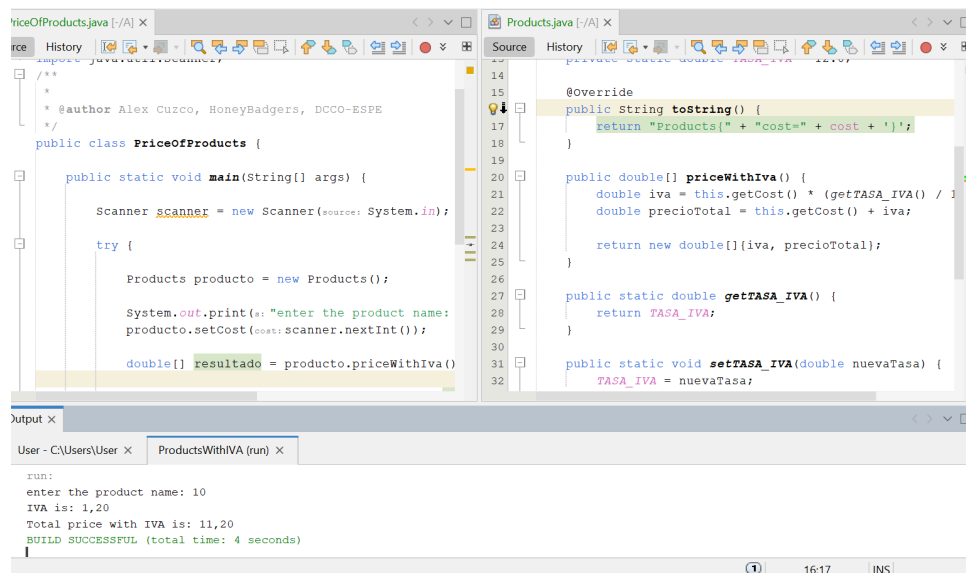
2. DAVID GUSTAVO CEPEDA SALGUERO



3. MATEO GABRIEL CRIOLLO LLUMIQUINGA



4. BRAYAN SEBASTIAN CRIOLLO VEGA



5. ALEX DARIO CUZCO YAMASCA

```

1  /**
2   * @author Alex Cuzco, HoneyBadgers, DCCO-ESPE
3   */
4  public class PriceOfProducts {
5
6      public static void main(String[] args) {
7
8          Scanner scanner = new Scanner(System.in);
9
10         try {
11
12             Products producto = new Products();
13
14             System.out.print("enter the product name:");
15             producto.setCost(scanner.nextInt());
16
17             double[] resultado = producto.priceWithIva();
18
19         }
20     }
21 }

```

```

14  @Override
15  public String toString() {
16      return "Products[" + "cost=" + cost + ']';
17  }
18
19  public double[] priceWithIva() {
20      double iva = this.getCost() * (getTASA_IVA() / 100);
21      double precioTotal = this.getCost() + iva;
22
23      return new double[]{iva, precioTotal};
24  }
25
26  public static double getTASA_IVA() {
27      return TASA_IVA;
28  }
29
30  public static void setTASA_IVA(double nuevaTasa) {
31      TASA_IVA = nuevaTasa;
32  }

```

```

run:
enter the product name: 10
IVA is: 1,20
Total price with IVA is: 11,20
BUILD SUCCESSFUL (total time: 4 seconds)

```

6. STEFANY MARICELA DIAZ ANTUN

```

1  package ec.edu.espe.iva.view;
2
3  import ec.edu.espe.iva.model.Tax;
4
5  /**
6   * @author Stefany Diaz, HoneyBadgers, DCCO - ESPE
7   */
8  public class TaxAppMain {
9
10     public static void main(String[] args) {
11
12         float cost = 10;
13
14         Tax taxCalculator = new Tax();
15
16         System.out.println(" Stefany Diaz ");
17         System.out.println("The cost is:" + cost + " and the IVA is: " + taxCalculator.calculateIVA(cost));
18         System.out.println("The total cost is: " + (cost + taxCalculator.calculateIVA(cost)));
19     }
20 }

```

```

run:
Stefany Diaz
The cost is:10.0 and the IVA is: 1.2
The total cost is: 11.2
BUILD SUCCESSFUL (total time: 0 seconds)

```

7. MATEO JAREN GARCIA GALARZA

```

1  package ec.edu.espe.iva.view;
2
3  import ec.edu.espe.iva.controller.IvaComputer;
4
5  /**
6   * @author mateo
7   */
8  public class IvaCalculator {
9
10     public static void main(String[] args) {
11         IvaComputer ivacomputer = new IvaComputer();
12         System.out.println("Iva price --> " + ivacomputer.computeIva(10));
13         System.out.println("Total price --> " + ivacomputer.computeTotalPrice(10));
14     }
15 }

```

```

run:
Iva price --> 1.2
Total price --> 11.2
BUILD SUCCESSFUL (total time: 0 seconds)

```

8. EDUARDO DAVID GARCIA ROMERO

The screenshot displays an IDE with the following components:

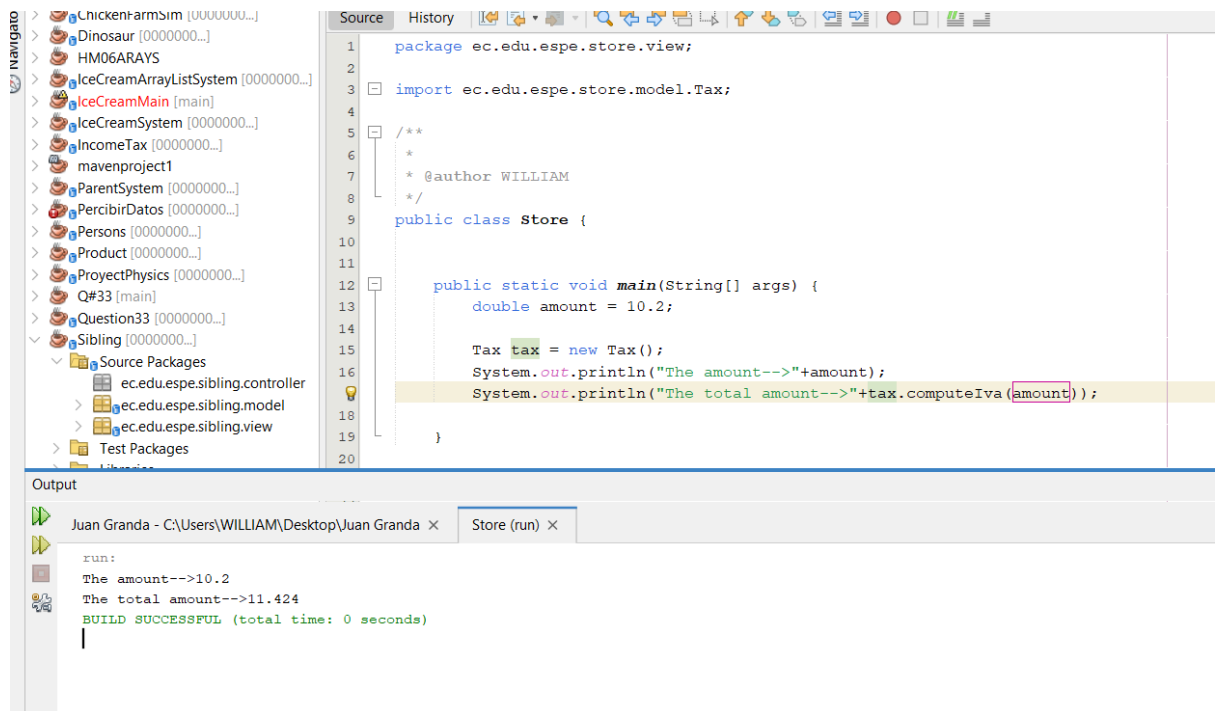
- Source Packages:**
 - ec.edu.espe.controller
 - ec.edu.espe.model
 - CostoTotal.java [-/A]
 - Iva.java [-/A]
 - ec.edu.espe.view
 - Calculadora.java [-/A]
 - Test Packages
 - Libraries
 - Test Libraries
 - Q33 [00000000...]
 - Siblings [00000000...]
 - Zoo_1 [00000000...]
 - Zoologico [00000000...]
- Members:**
 - Calculadora
 - Calculadora()
 - main(String[] args)
- Code Editor:**

```
2 package ec.edu.espe.view;
3
4 import ec.edu.espe.model.CostoTotal;
5 import ec.edu.espe.model.Iva;
6 import java.util.InputMismatchException;
7 import java.util.Locale;
8 import java.util.Scanner;
9
10
11 /**
12  *
13  * @author eduag
14  */
15
16 public class Calculadora {
17
18     public static void main(String[] args) {
19         Scanner scanner = new Scanner(System.in).useLocal
20
21         try {
22
23             System.out.print("Ingrese el precio del produ
24             double precio = scanner.nextDouble();
25
26             System.out.print("Ingrese el porcentaje de IV
27             double porcentajeIVA = scanner.nextDouble();
28
29             double iva = Iva.calcularIva(precio, porcenta
30
31             double costoTotal = CostoTotal.calcularCostoT
32
33
34
35
```
- Output:**

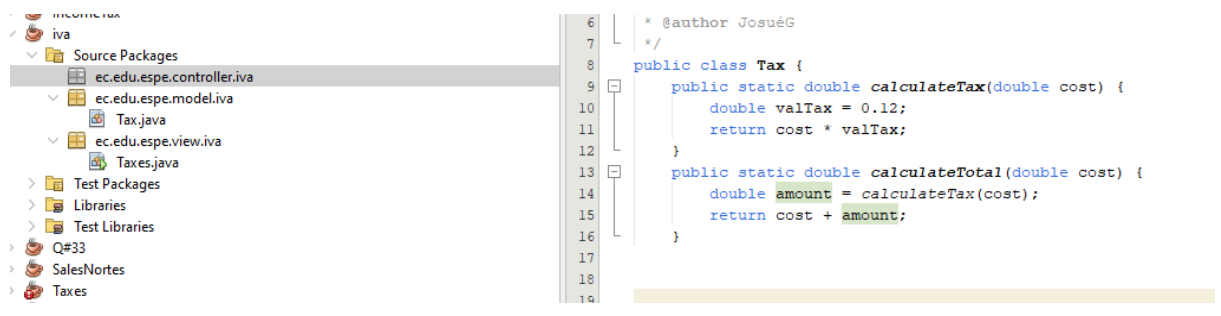
```
run:
Ingrese el precio del producto: 1.20
Ingrese el porcentaje de IVA: 1.36

Resultado:
IVA: 0.01632
Costo Total: 1.21632
BUILD SUCCESSFUL (total time: 8 seconds)
```

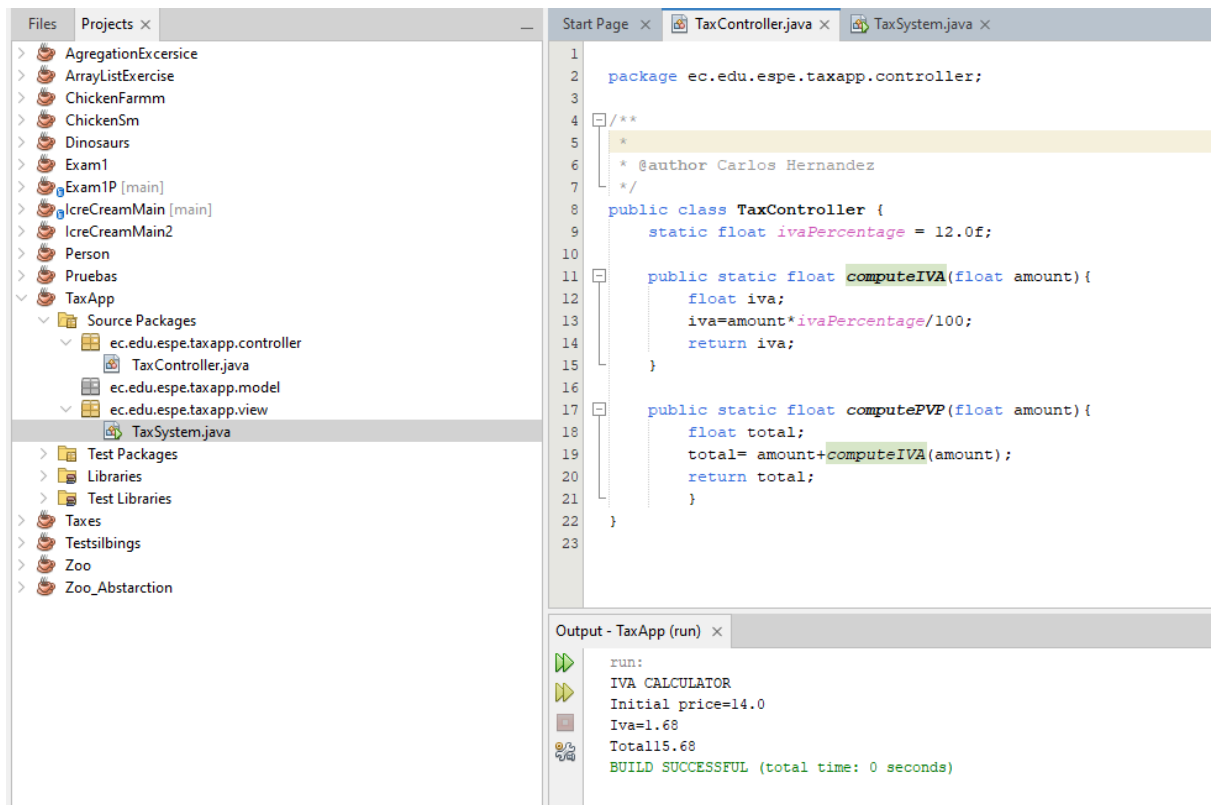
9. JUAN CARLOS GRANDA ARCOS



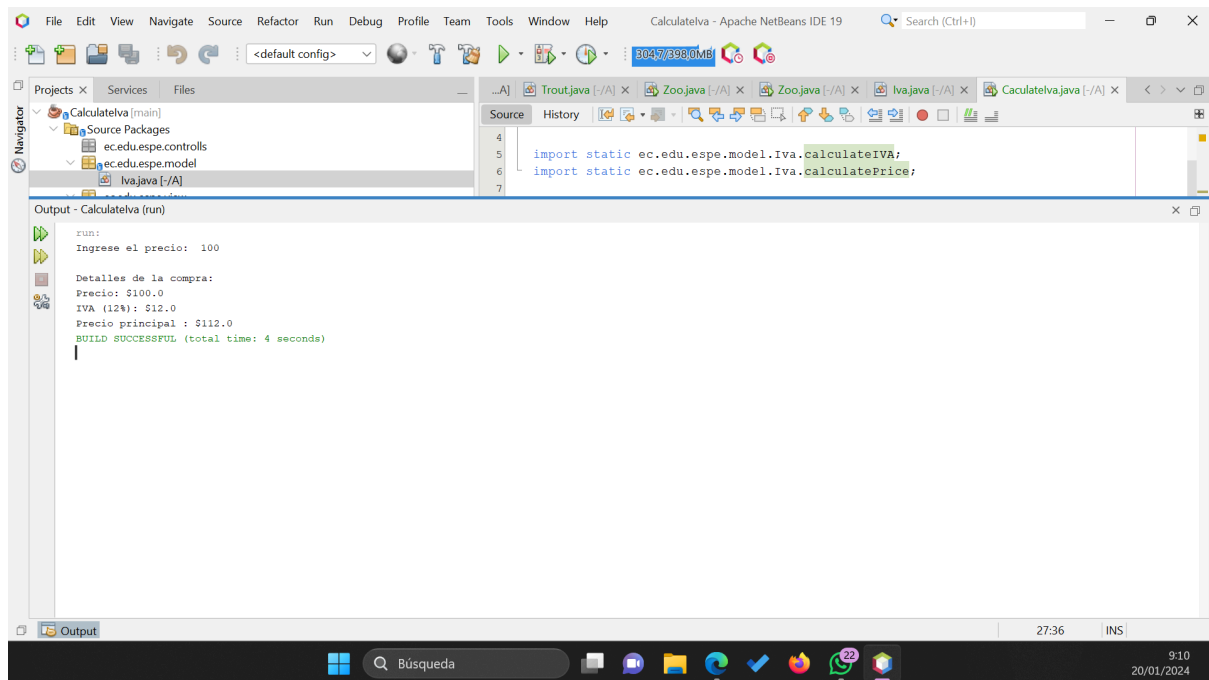
10. JOSUE DANIEL GUAYASAMÍN HEREDIA



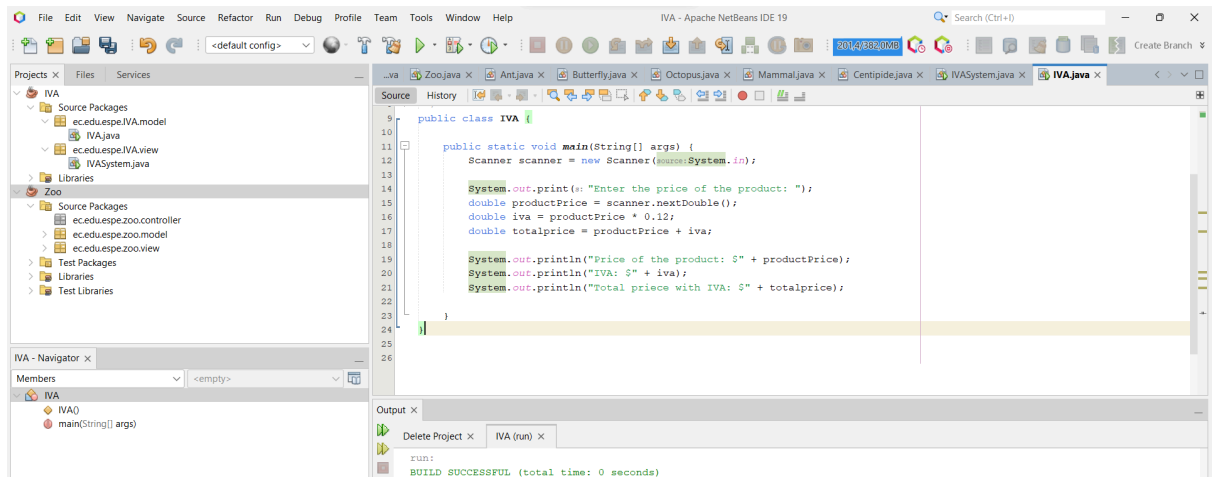
11. CARLOS ORLANDO HERNANDEZ ALMEIDA



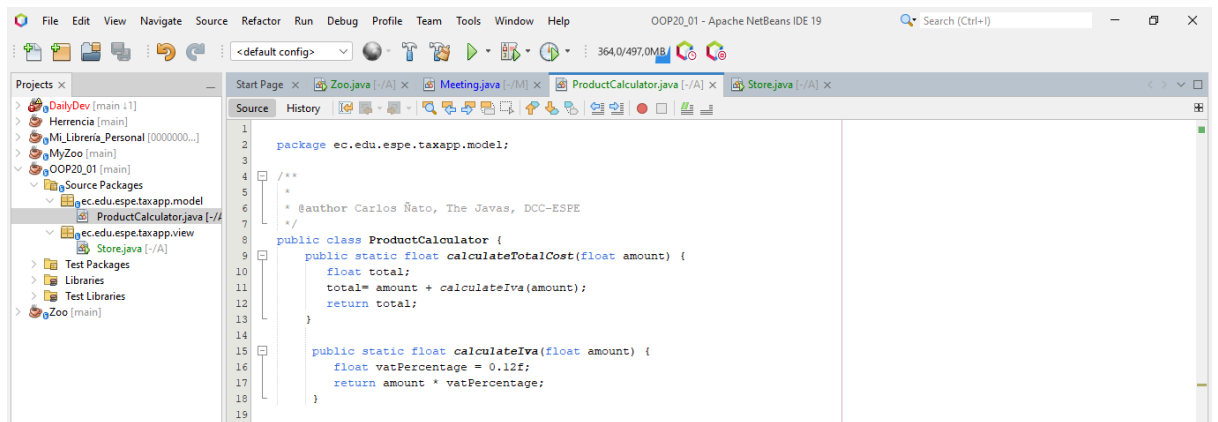
12. JUAN MATEO IZA BARRIONUEVO



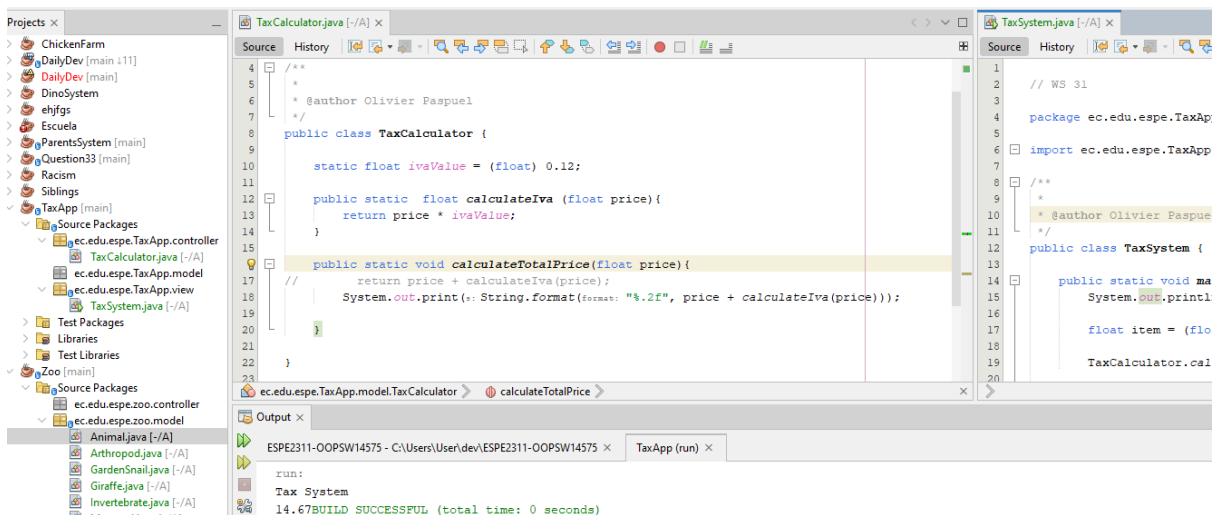
13. DAVID ALEJANDRO LOPEZ VILLACIS



14. CARLOS ISAAC ÑATO CAIZA



15. FLAVIO OLIVIER PASPUEL CASTILLO



16. ANTONIO ADRIÁN REVILLA ANCHAPAXI


```
package ec.espe.edu.calculatorIVA.controller;

/**
 *
 * @author Antonio Revilla
 */
public class Calculation {

    public static final double valueIVA = 0.12;

    public static double calculateIVA(double price) {
        return price * valueIVA;
    }

    public static double calculateTotalCost(double price) {
        double iva = calculateIVA(price);
        return price + iva;
    }
}

package ec.espe.edu.calculatorIVA.view;

import ec.espe.edu.calculatorIVA.controller.Calculation;

/**
 *
 * @author Antonio Revilla
 */
public class SystemCalculator {

    public static void main(String[] args) {
        double price = 12;

        System.out.println("----IVA----");
        System.out.println("Antonio Revilla");
        System.out.println("Price: " + price);
        System.out.println("IVA: " + Calculation.calculateIVA(price));
        System.out.println("total cost with IVA: " + Calculation.calculateTotalCost(price));
    }
}
```

17. ILHAN RANDY ROGEL VILLA

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

import ec.espe.edu.model.Taxes;

/**
 *
 * @author Ilhan
 */
public class Price {

    public static void main(String[] args) {
        double cost = 150;

        System.out.println("Your ammount is: " + cost);
        System.out.println("the IVA is: " + Taxes.calculteIVA(cost));
        System.out.println("TOTAL: " + Taxes.totalCost(cost));
    }
}
```

run:
Your ammount is: 150.0
the IVA is: 18.0
TOTAL: 168.0
BUILD SUCCESSFUL (total time: 1 second)

18. MATEO NICOLAY ROGERON MAILA

```

no usages
public IVA(float iva) { this.iva = iva; }

no usages
public float getIva() { return iva; }

no usages
public void setIva(float iva) { this.iva = iva; }

no usages
public void IVAprice(int amount){
    double IVAprice;
    IVAprice = amount / iva;
    System.out.println("IVA value"+IVAprice);
}

```

19. ANDRÉS ALEJANDRO ROMERO ZAMBRANO

```

1 package ec.edu.espe.ivasystem.model;
2
3 /**
4  *
5  * @author Andrés Romero - DCCO
6  */
7 public class Product {
8     private String name;
9     private double price;
10
11     public Product(String name, double price) {
12         this.name = name;
13         this.price = price;
14     }
15
16     public double calculateIVA(){
17         double iva = 0.12;
18         return price * iva;
19     }
20
21     public double getTotalPrice(){
22         return price + calculateIVA();
23     }
24
25     public void getInformation() {
26         System.out.println("Product: " + name);
27         System.out.format("Price: %.2f\n", price);
28         System.out.format("IVA: %.2f\n", calculateIVA());
29         System.out.format("Total price + IVA: %.2f\n", getTotalPrice());
30     }
31 }
32
33

```

```

1 package ec.edu.espe.ivasystem.view;
2
3 import ec.edu.espe.ivasystem.model.Product;
4
5 /**
6  *
7  * @author Andrés Romero - DCCO
8  */
9 public class IVACalculator {
10     public static void main(String[] args) {
11         System.out.println("\n--- IVA Calculator ---\n");
12         Product product = new Product("Iron bars", 15.0);
13         product.getInformation();
14     }
15 }
16

```

--- IVA Calculator ---

Product: Iron bars

Price: \$15.00

IVA: \$1.80

Total price + IVA: \$16.80

kmd@kmdtu:~/Documents/ESPE2311-00PSW14575/ws/romeroa

20. LUIS EDUARDO SAGNAY PILAMUNGA

The screenshot shows an IDE with the following components:

- Projects Panel:** Shows a project named 'CalculateTaxes' with sub-packages: 'Source Packages', 'ec.edu.espe.calculatetaxes.controller', 'ec.edu.espe.calculatetaxes.model', 'CalculateTax.java', 'ec.edu.espe.calculatetaxes.view', 'Sales.java', 'Test Packages', 'Libraries', 'Test Libraries', and 'Zoo'.
- Source Code Editor:** Displays the code for 'CalculateTax.java':


```

1 package ec.edu.espe.calculatetaxes.model;
2
3 /**
4  *
5  * @author Luis Sagnay
6  */
7 public class CalculateTax {
8
9     public static float calculateIVA(float price) {
10         float percentage = 12;
11         return price * (percentage/100);
12     }
13
14     public static float calculatePVP(float price) {
15         return (price + calculateIVA(price));
16     }
17 }
18

```
- Output Panel:** Shows the output of the program:


```

run:
----IVA----
Luis Sagnay
Price: 11.0
IVA: 1.3199999
PVP: 12.32
BUILD SUCCESSFUL (total time: 0 seconds)

```

21. FREDERICK SANTIAGO TIPÁN MORENO

The screenshot shows an IDE with two tabs: Sales.java and Tax.java. The Tax.java tab is active, displaying the following code:

```
1 package ec.espe.edu.model;
2
3 /**
4  *
5  * @author Frederick
6  */
7 public class Tax {
8     public static float calculateTotalPrice(float initialCost){
9         System.out.println(x: " ----- IVA -----");
10        System.out.println("Initial price value: " + initialCost);
11        float taxValue=calculateIVA(initialCost);
12
13        System.out.println("Final price value: " + (initialCost+taxValue));
14
15        return taxValue + initialCost;
16    }
17
18    private static float calculateIVA(float initialCost){
19        System.out.println("IVA value: " + initialCost*0.12f);
20        return initialCost * 0.12f;
21    }
22
23 }
```

Below the code editor is the Output window, which shows the following text:

```
run:
Insert the price of the product
10
----- IVA -----
Initial price value: 10.0
IVA value: 1.1999999
Final price value: 11.2
BUILD SUCCESSFUL (total time: 1 second)
```

22. GABRIEL NICOLAS VIVANCO RAZA

23. JEFFERSON DAVID YEPEZ MORAN

The screenshot shows an IDE with three tabs: IvaSystem.java, Tax.java, and Output - IVA (run). The Tax.java tab is active, displaying the following code:

```
1 package ec.edu.espe.iva.model;
2
3 /**
4  *
5  * @author user
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 }
```

Below the code editor is the Output window, which shows the following text:

```
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)
```