Universidad de las Fuerzas Armadas

CLASS NAME : *OBJECT ORIENTED PROGRAMMING*

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NRC: *14575*

Extra point

TOPIC: *Exam Inspection*

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```java
import ec.edu.espe.usataxcalculator.model.Tax;
import ec.edu.espe.usataxcalculator.view.FrmTax;

/**
 *
 * @author David
 */
public class TaxController {
    private Tax model;
    private FrmTax view;

    public TaxController(Tax model, FrmTax view) {
        this.model = model;
        this.view = view;
    }

    public void calculateTax() {
        double amount = view.getAmount();
        double taxRate = view.getTaxRate();
        double totalWithTax = model.calculateTotalWithTax(amount, taxRate);
        view.setResult(totalWithTax);
    }
}
```

```java
package ec.edu.espe.usataxcalculator.model;

/**
 *
 * @author David
 */
public class Tax {

    private static Tax instance;
    private double currentTaxRate;

    private Tax() {
        this.currentTaxRate = 12;
    }

    public static Tax getInstance() {
        if (instance == null) {
            instance = new Tax();
        }
        return instance;
    }

    public double calculateTotalWithTax(double amount, double taxRate) {
        return amount + (amount * (taxRate / 100));
    }

    public void setCurrentTaxRate(double currentTaxRate) {
        this.currentTaxRate = currentTaxRate;
    }

    public double getCurrentTaxRate() {
        return currentTaxRate;
    }
}
```

```java
    }// </editor-fold>

    private void jTextField1ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
    }

    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
        double amount = Double.parseDouble(s: jTextField1.getText());
        double taxRate = Double.parseDouble(s: jTextField3.getText());
        double totalWithTax = amount + (amount * (taxRate / 100));
        jTextField2.setText(t: String.valueOf(d: totalWithTax));
    }

    private void jTextField2ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
    }
```