```java
// Lab05
// The Federal Tax Rate Program

import java.util.Scanner;

public class FederalTaxRate{
    public static void main(String args[]){
        System.out.println("Lab05: The Federal Tax Rate Program");
        System.out.println();

    // Write the user interface
        Scanner scan = new Scanner(System.in);
        System.out.println("Are you married?");
        String marriageStatus = scan.nextLine();
        String marriageStatusC = marriageStatus.toLowerCase();

        System.out.println("What is you or your couple's taxable
income?");
        double income = scan.nextDouble();
        scan.close();
        computeTax(marriageStatusC, income);

    }

    public static double computeTax(String marriageStatusC, double income)
{
        double tax = 0.0; // Reassign this variable based on the
respective calculation
        double flatRate = 0.0;
        double taxedIncome = 0.0;

        if (marriageStatusC.contentEquals("no")) {
            if (income <= 9950) {
                tax = 0.1;
                taxedIncome = income;
                flatRate = 0.0;
            } else if (income <= 40525) {
                tax = 0.12;
                taxedIncome = income - 9950;
                flatRate = 995.00;
            } else if (income <= 86375) {
                tax = 0.22;
                taxedIncome = income - 40525;
                flatRate = 4664.00;
            } else if (income <= 164925) {
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            tax = 0.24;
            taxedIncome = income - 86375;
            flatRate = 14751.00;
        } else if (income <= 209425) {
            tax = 0.32;
            taxedIncome = income - 164925;
            flatRate = 33603.00;
        } else if (income <= 523600) {
            tax = 0.35;
            taxedIncome = income - 209425;
            flatRate = 47843.00;
        } else {
            tax = 0.37;
            taxedIncome = income - 523600;
            flatRate = 157804.00;
        }
    } else if (marriageStatusC.contentEquals("yes")){
        if (income <= 19900) {
            tax = 0.1;
            flatRate = 0.0;
            taxedIncome = income;
        } else if (income <= 81050) {
            tax = 0.12;
            taxedIncome = income - 19900;
            flatRate = 1990.00;
        } else if (income <= 172750) {
            tax = 0.22;
            taxedIncome = income - 81050;
            flatRate = 9328.00;
        } else if (income <= 329850) {
            tax = 0.24;
            taxedIncome = income - 172750;
            flatRate = 29502;
        } else if (income <= 418850) {
            tax = 0.32;
            taxedIncome = income - 329850;
            flatRate = 67206.00;
        } else if (income <= 628300) {
            tax = 0.35;
            taxedIncome = income - 418850;
            flatRate = 95686.00;
        } else {
            tax = 0.37;
            taxedIncome = income - 628300;
            flatRate = 168994.00;
```
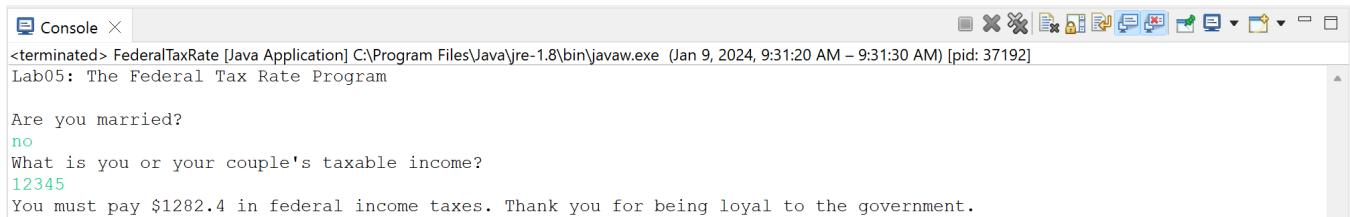
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            }
        } else {
            System.out.println("INVALID INPUT! WHO ARE YOU?");
        }
        System.out.println("You must pay $" + Math.round((flatRate +
taxedIncome * tax)*100.00)/100.00 + " in federal income taxes. " + "Thank
you for being loyal to the government.");
        return Math.round((flatRate + taxedIncome * tax)*100.00)/100.00;
    }
}
```

```
Lab05: The Federal Tax Rate Program

Are you married?
no
What is you or your couple's taxable income?
12345
You must pay $1282.4 in federal income taxes. Thank you for being loyal to the government.
```