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//Lab05
//The Federal Tax Rate Program
//This is the student, starting version of Lab05.
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();
            double tax = 0.0; // Reassign this variable
based on the respective calculation
            //Write the user interface
            double flatRate=0.0;
            double taxedIncome=0.0;
            System.out.println("Are you married?");
            Scanner scan= new Scanner(System.in);
            System.out.println("Enter a string of your
choosing:");
            String marriageStatus = scan.nextLine();
            String marriageStatusC =
marriageStatus.toLowerCase();

            if (marriageStatusC.contentEquals("no")) {
                System.out.println("What is your taxable
income?");
                double income= scan.nextDouble();
                if (income<=9950) {
                    tax= 0.1;
                    taxedIncome=income;
                    flatRate=0.0;
                }else if (income<=40525) {
                    tax= 0.12;
                    flatRate= 995.00;
                    taxedIncome= income-9950;
                } else if (income<=86375) {
                    tax= 0.22;
                    flatRate= 4664.00;
                    taxedIncome= income-40525;
                } else if (income<164925) {
                    tax= 0.24;
                    flatRate= 14751.00;
                }
            }
        }
    }

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        taxedIncome= income-86375;
    } else if (income<=209425) {
        tax= 0.32;
        flatRate= 33603.00;
        taxedIncome= income-164925;
    } else if (income<=523600) {
        tax= 0.35;
        flatRate= 47843.00;
        taxedIncome= income-209425;
    } else {
        tax= 0.37;
        flatRate= 157804.00;
        taxedIncome= income-523600;
    }

    } else if (marriageStatusC.contentEquals("yes")) {
        System.out.println("What is your taxable
income?");
        double income= scan.nextDouble();
        if (income<=19900) {
            tax= 0.1;
            flatRate= 0.0;
            taxedIncome=income;
        }else if (income<=81050) {
            tax= 0.12;
            flatRate= 1990.00;
            taxedIncome= income-19900;
        } else if (income<=172750) {
            tax= 0.22;
            flatRate= 9328.00;
            taxedIncome= income-81050;
        } else if (income<=329850) {
            tax= 0.24;
            flatRate= 29502.00;
            taxedIncome= income-172750;
        } else if (income<=418850) {
            tax= 0.32;
            flatRate= 67206.00;
            taxedIncome= income-329850;
        } else if (income<=628300) {
            tax= 0.35;
            flatRate= 95686.00;
            taxedIncome= income-418850;
        } else {
            tax= 0.37;

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        flatRate= 168994.00;
        taxedIncome= income-628300;
    }
}
    else {
        System.out.println("Invalid Input!!");
    }
System.out.println("You must pay $" +
Math.round((flatRate+taxedIncome*tax)*100.0)/100.0 + " in federal
income taxes.");
    }
}
```