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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[]) {

        Scanner scan = new Scanner(System.in);

        System.out.println("Lab05: The Federal Tax Rate Program");
        System.out.println();
        double tax = 0.0; // Reassign this variable based on the
respective calculation

        System.out.println("What is your marital status? (single,
married, or widow)");
        String filingStatus = scan.nextLine().toLowerCase();

        System.out.println("What is your taxable income?");
        double taxableIncome = scan.nextDouble();

        if (filingStatus.equals("single")) {
            if (taxableIncome <= 0) {
                tax = 0;
            }
            else if (taxableIncome <= 9950) {
                tax = taxableIncome * .1;
            }
            else if (taxableIncome <= 40525) {
                tax = 995 + ((taxableIncome - 9950) * .12);
            }
            else if (taxableIncome <= 86375) {
                tax = 4664 + ((taxableIncome - 40525) *.22);
            }
            else if (taxableIncome <= 164925) {
                tax = 14751 + ((taxableIncome - 86375) * .24);
            }
            else if (taxableIncome <= 209425) {
                tax = 33603 + ((taxableIncome - 164925) * .32);
            }
            else if (taxableIncome <= 523600) {
                tax = 47843 + ((taxableIncome - 209425) * .35);
            }
            else {
                tax = 157804 + ((taxableIncome - 523600) * .37);
            }
        }
        else {
            if (taxableIncome <= 0) {
                tax = 0;
            }
        }
    }
}

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    }
    else if (taxableIncome <= 19900) {
        tax = taxableIncome * .1;
    }
    else if (taxableIncome <= 81050) {
        tax = 1990 + ((taxableIncome - 19900) * .12);
    }
    else if (taxableIncome <= 172750) {
        tax = 9328 + ((taxableIncome - 81050) * .22);
    }
    else if (taxableIncome <= 329850) {
        tax = 29502 + ((taxableIncome - 172750) * .24);
    }
    else if (taxableIncome <= 418850) {
        tax = 67206 + ((taxableIncome - 329850) * .32);
    }
    else if (taxableIncome <= 628300) {
        tax = 95686 + ((taxableIncome - 418850) * .35);
    }
    else {
        tax = 168994 + ((taxableIncome - 628300) * .37);
    }
}

// Write the user interface
// Determine the total federal tax
// Print out the total federal tax due

    System.out.println("You must pay " +
Math.round(tax*100)/100.0 + " in federal income taxes" ); // Only need to
print once, not inside conditionals
    scan.close();
}
}

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