

```
1 // Lab05
2
3
4
5 import java.util.Scanner;
6 public class FederalTaxRate
7 {
8     public static void main(String args[])
9     {
10        Scanner scann = new Scanner (System.in);
11        System.out.println("Are you married? (Y/N): ");
12        char yesno = scann.next().charAt 0;
13        System.out.println("What is your annual income? : ");
14        double income = scann.nextInt();
15        //married or not?
16        boolean married = false;
17
18        if (yesno=='y' || yesno=='Y')
19        {
20            married= true;
21        }
22        ;
23        double amountOwed = calctax (married, income);
24
25
26        //system out prints
27        System.out.println("Tax owed: $" + amountOwed);
28        scann.close();
29    }
30
31
32    public static double calctax (boolean married, double
income)
33    {
34        double amountOwed =0;
35        if (married==true)
36        {
37
38            if (income<19900 && income>=0)
39            {
40                amountOwed=income*0.1;
41            }
42            else if (income>19900 && income<=81050)
43            {
44                amountOwed= (income-19900)*(0.12)+1990;
```

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45     }
46     else if (income > 81050 && income <= 172750)
47     {
48         amountOwed = (income - 81050) * (0.22) + 9328;
49     }
50     else if (income > 172750 && income <= 329850)
51     {
52         amountOwed =
53         (income - 172750) * (0.24) + 29502;
54     }
55     else if (income > 329850 && income <= 418850)
56     {
57         amountOwed =
58         (income - 329850) * (0.32) + 67206;
59     }
60     else if (income > 418850 && income <= 628300)
61     {
62         amountOwed =
63         (income - 418850) * (0.35) + 95686;
64     }
65     else if (income > 628300)
66     {
67         amountOwed =
68         (income - 628300) * (0.37) + 168994;
69     }
70 }
71 else if (married == false)
72 {
73     if (income < 9950 && income >= 0)
74     {
75         amountOwed = income * 0.1;
76     }
77     else if (income >= 9950 && income <= 40525)
78     {
79         amountOwed = (income - 9950) * (0.12) + 995;
80     }
81     else if (income > 40525 && income <= 86375)
82     {
83         amountOwed = (income - 40525) * (0.22) + 4664;
84     }
85     else if (income > 86375 && income <= 164925)
86     {
87         amountOwed = (income - 86375) * (0.28) + 12644;
88     }
89 }
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84     {
85         amountOwed= (income-86375)*(0.24)+14751;
86     }
87     else if (income>164925 && income<=209425)
88     {
89         amountOwed= (income-164925)*(0.32)+33603;
90     }
91     else if (income>209425 && income<=523600)
92     {
93         amountOwed= (income-209425)*(0.35)+47843;
94     }
95     else if (income>523600)
96     {
97         amountOwed= (income-523600)*(0.37)+157804;
98     }
99     }
100
101     return Math.round(amountOwed*100)/100.0;
102 }
103
104 }
```