# irs

**Create two new classes in your ControlStructures project called IRS.java and Accountant.java. (Accountant is your tester class)**

Federal income tax rates can be calculated using tax rate schedules. The following are tax rates for two out of the four categories used by the IRS in 2001:

**Schedule X - Single**

|  |  |  |
| --- | --- | --- |
| **Salary Minimum** | **Salary Maximum** | **Tax Percent** |
| 0 | $ 27,049 | 15 % |
| 27,050 | 65,549 | $ 4,057.50 + 27.5 % |
| 65,550 | 136,749 | $ 14,645.00 + 30.5 % |
| 136,750 | 297,349 | $ 36,361.00 + 35.5 % |
| 297,350 | --------- | $ 93,374.00 + 39.1 % |

**Schedule Y-1 - Married filing jointly**

|  |  |  |
| --- | --- | --- |
| **Salary Minimum** | **Salary Maximum** | **Tax Percent** |
| 0 | 45,199 | 15 % |
| 45,200 | 109,249 | $ 6,780.00 + 27.5 % |
| 109,250 | 166,499 | $ 24,393.75 + 30.5 % |
| 166,500 | 297,349 | $ 41,855.00 + 35.5 % |
| 297,350 | --------- | $ 88,306.00 + 39.1 % |

**To test your understanding, follow this example of a single person with taxable income of $68,000:**

**Tax is**

$14,645.00 + 0.305\*(68000-65550)

= $14,645.00 + $747.25

= $15,392.25

**Program instructions:**

**IRS methods**

Method 1. Constructor

public IRS(int status, double income)

This initializes the values for the user’s:

* Filing status: Single or Married (entered as 1 for Single and 2 for Married)
* Taxable income

Method 2. Find if married or single

public String findStatus()

* Returns “Married” if status equals 2
* Returns “Single” if status equals 1

Method 3. Find Federal Tax

public double fedTax()

Finds the amount owed based on filing status and income.

Method 4. Output

public String output()

Using the above methods, create a method that returns the following format Strings.

|  |
| --- |
| **Example Desired Outputs** |
| Marital Status = Married  Taxable Income = $50000  Your Federal Tax – $8100 |
| Marital Status = Single  Taxable Income = $25000  Your Federal Tax – $3750 |
| Marital Status = Married  Taxable Income = $300000  Your Federal Tax – $89342.15 |

**Accountant class**

Main Method

Use the following values for your run output in the Accountant (Tester) class:

* Single, $15,500
* Single, $100,000
* Single, $480,000
* Married, $50,000
* Married, $125,000
* Married, $ 400,000