FIRST TECH CLUB PROJECT:

TAX CALCULATOR GUI

Project Details:

This project will be written in Java and have 2 teams working on it. We will use the swingx library to create a window that takes a double as the user’s income input, and output how much taxes they need to pay.

Team A:

You will be working on the Back-End of the project. You will be required to create a method, called taxCalculator() that takes a double as the income input, and returns a double of how much taxes they are owed.

We will only be using the Single filers rate that you can refer at on this table:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Income | $0-9,875 | $9,875-40,125 | $40,125-85,525 | $85,525-163,300 | $163,300-207,350 | $207,350-518,400 | >$518,400 |
| Tax rate | 10% | 12% | 22% | 24% | 32% | 35% | 37% |

Team B:

You will be working on the Front-End of the project. You will be required to create a class that uses the SwingX library (JFrame + JPanel, JButton, JTextField and JLabel). Here is what you will be creating:

1-a JFrame/JPanel window.

2-a JLabel that asks “What is your income?” at the top of the window, and another JLabel at the bottom that will be set later on.

3-a JTextField that takes a double for the income.

4-a “Submit” JButton that has an ActionListener which takes the income double, uses the taxCalculator(income) from Team A and outputs that result onto the JLabel at the bottom (from 2).

Help recommendations:

-Alex Lee: [Video 1](https://www.youtube.com/watch?v=5o3fMLPY7qY) and [Video 2](https://www.youtube.com/watch?v=iE8tZ0hn2Ws)