

## PRG 155 -Programming Fundamentals Using C

### LAB #4

Write a working C program that will do the following:

1. Include comments at the beginning of the program as shown below:

```
/*  
    program: lab5.c  
    author:  firstName, lastName  
    date:    today's date  
    purpose: using if-else statements  
*/
```

#### PART I

2. The program will first compute the tax you owe based on your income.
3. User is prompted to enter income.
4. Program will compute the total amount of tax owed based on the following:

Income	Tax
0 - \$45,000	= 0.15 x income
\$45,001 - \$90,000	= 6750 + 0.20 x (income – 45000)
\$90,001 - \$140,000	= 15750 + 0.26 x (income – 90000)
\$140,001 - \$200,000	= 28750 + 0.29 x (income – 140000)
Greater than \$200,000	= 46150 + 0.33 x (income – 200000)

Dollar amounts should be in dollars and cents (float point numbers with two decimals shown).

5. Tax is displayed on the screen.

#### PART II

6. Program will then find the largest of three numbers using nested if-else statements.
7. User is prompted to enter three numbers.
8. Program will find the largest number and display it on the screen. All three numbers entered by the user are also displayed.

If user enters 21, 33, and 5, the output should be as follows:

```
You entered: 21, 33 and 5. The largest number is 33.
```

9. Save the .c file as **lab5.c** and submit it on the Blackboard.