CS121
P1
streller
FA2023

PROBLEM STATEMENT:

Write a program that calculates the federal income tax for an unmarried single tax payer using the federal income tax schedule table below.

If the amount on Form1040, line 38 is …	But not over	Enter on Form Form 1040, line 39	plus	of the amount over ...
$ 0	$ 24,650	**0.00**	**+ *15%***	0
24,650	59,750	**3,697.50**	**+ *28%***	24,650
59,750	124,650	**13,525.50**	**+ *31%***	59,750
124,650	271,050	**33,644.50**	**+ *36%***	124,650
271,050		**86,348.50**	**+ *39.6%***	271,050

CODE:

Create projects/files named Project1 for the project name and project1_driver.cpp for the driver
The user will input a social security number for the given tax payer in the form xxxxxxxxx
The social security number must be either a string or a c-string – NOT an integer.
Then prompt for the taxable income for user xxxxxxxxx (i.e. Line 38) -- This must be done in a function.
Likewise, there is to be a function which will display the user's social security number, the taxable income and the corresponding federal income tax due.
The program is to loop an indeterminate number of time processing each new taxpayer until the user wishes to quit
Functions must be used to handle all processing
Note: Error checking must be done on the user inputted ssn. Input must be of said form; any other form will ask for re-input. Unacceptable forms include but not limited to include: 456-23-2345, 12345678912, 666 56 1234, 3456. 666, 123456789a, asdervfrt, 66666666666666, ghffgjhflgkhjflhflhjfhhhh, etc.

Only techniques presented in class are permitted.

Documentation must be suppiled

DELIVERABLES:

hard :

In a bound folder

1. documented source code
2. **user manual.**

Due Date : 1:00pm 1 November 2023

soft:

in a zipped file, called CS121_P1_yourLastName

1. all source code
2. release version executable. The .exe must be compiled and run on windows (no exe, grade = 0]; would you ever ship a product without the application exe for the user ?
3. user manual.
   Of course, documentation standards need to be followed
4. **Do NOT include any other files. Other files included will receive an automatic 15 point deduction**

submitted to BrightSpace to CS121_P1_ANS

Due Date : 1:00pm 1 November 2023

Status Report Due 23 October 2023

emailed to streller@ecc.edu with the subject cs121_P1_statusReport

1. This **must be** a pdf.
2. the content will be a description of what you have completed as of 23 October 2023.

(even if you haven't begun the project, you must state so and still submit the report)

Demos will commence 1 November 2023