Activity No. 2 Tax Calculator

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1.1 Objectives

1.1.1 General Objective

To demonstrate the use of python to create a tax calculator that computes for the monthly income tax/es of the user. To also be able to familiarize Github functions and create a public repository and branch.

1.2 Theory

1.2.1 Annual Income and Tax Rate

Annual Income is the amount of money earned in a calendar year before the taxes. Tax Rate shows the percentage which the individual or a company is taxed.

Table 1.2.1 Income Tax Tables under TRAIN Law

Figure 1.2.1 Volume of Cube

1.2.2 Github

Github is a version control platform where users can collaborate or get open source code projects, share ideas, etc.

Figure 1.2.2 Github Logo

1.3 Syntax and functions

1.3.1 Def function

Usage
The deft function allows the user to define a function in the program to use it later on

Syntax

- def(prompt)

1.3.2 if/elif function

Usage

The print function allows the code to display the prompt that the user input.

Syntax

- If
- elif

1.3.2 return function

Usage

The import Math function allows the code to use the math.pi value in the formula.

Syntax

- return

1.4 Methodology

```python
#Display of TotalTax for the user input
def calculate(amount, percent):
    print("Total Tax applicable is" , (amount * percent / 100))
    return 0

    #function for calculating the tax rate for each annual income
def calculate_income_tax(monthlyinc):

    if monthlyinc <= 250000:
        print("Total Tax applicable is",(monthlyinc))
        return 0

    elif monthlyinc <= 400000:
```

```python
        return calculate(monthlyinc -  250000, 15)

    elif monthlyinc <= 800000:
        return calculate(monthlyinc -  400000, 20) + 22500

    elif monthlyinc <= 2000000:
        return calculate(monthlyinc - 800000, 25) + 102500

    elif monthlyinc <= 8000000:
        return calculate(monthlyinc - 2000000, 30) + 402500

    elif monthlyinc > 8000000:
        return calculate(monthlyinc - 8000000, 35) + 2202500

#user input
monthlyinc = input ("Enter your monthly income: ")
calculate_income_tax(float(monthlyinc))
```

1.5 Results and Discussion

Table 1.5 Results of the Tax Calculator

Annual Income	Tax Rate	User Input	Manual Computation	Python Code
250 000 and Below	0%	100 000	100 000	100000.0
250 000 above and 400 000 & below	15% of excess over 250 000	300 000	7 500	7500.0
400 000 above and 800 000 & below	P22 500 + 20% of excess over 400 000	700 000	60 000	60000.0
800 000 above and 2 000 000 & below	P102 500 + 25% of excess over 800 000	2 000 000	300 000	300000.0
2 000 000 above and 8 000 000 & below	P402 500 + 30% of excess over 2 000 000	3 000 000	600 000	600000.0
8 000 000 above	P2 202 500 + 35% of excess over 8 000 000	8 000 000	1 800 000	1800000.0