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Accountantulator

Problem Statement

As the years go by our life gets more and more complicated, this can be seen in the amount of taxes we have to pay and the variety of taxes we have to pay. This can be your salary, the groceries that you bought, the lottery that you won, and even what you inherit from your parents and grandparents. **The problem is that it gets very annoying and costly to see the amount of Pesos you have to pay without knowing how and why you actually pay that amount. Our project aims to help people figure out how they have to pay a certain amount by showing them the formulas used to calculate a certain tax, while also showing them why they pay that amount of tax by allowing them to calculate it themselves.**

Project Objectives

One of the main goals of this project is to help the average person calculate the amount they need to pay for their tax if they cannot afford a personal accountant, this objective should only require the input of the person on a certain subject such as their income, the amount they inherited, or the price of an item they bought. Moreover, the Accountantulator should be able to calculate all the types of taxes that the average person encounters yearly or monthly. The project also aims to be as simple as possible with the Interface requiring no more than the type of tax you want to calculate and the required value in that field.

Planned Features

Here are all of the main features that we want to include in the Accountantulator

1. Opening User Interface
    a. Tax Calculation
        i. Income Tax
        ii. Vat Tax
        iii. Withholding Tax

iv. Property Tax
v. Medical Tax
vi. Inheritance Tax
vii. Business Tax
viii. Calculation History

b. How to use Accountantulator
c. Exit

Planned Inputs and Outputs

Firstly, we plan that once a person opens up the Accountantulator it should output the Opening User Interface, and we plan that if a person selects the first option it should show the types of taxes that a person could calculate. Once that is accomplished we plan that the user should input the type of tax that they want to calculate, and once they have chosen what they want to calculate they should input the required field for the calculation to be done. After that it should output the calculated tax and allow the user to select another tax they wish to calculate.

A new feature we also want to implement is using 2d arrays for saving the history of what the user needed to calculate (Type of Tax) and what they needed to pay. (Amount of Tax) for 10 iterations.

Pseudocode

```
Define taxcalc():
    I = 0
    E = 1
    J = 0
    Historylist =[[“0”, 0]]
    Print(“Welcome to Accountantulator please select the type of Tax you would like to
    calculate”)

    TypeofTax = integer(input(1. Income Tax\ 2. Vat Tax\ 3. Withholding Tax\ 4. Property Tax\
    5. Medical Tax\ 6. Inheritance Tax\ 7. Business Tax\ 8. Calculation History”)

    If TypeofTax == 1
        Annualsal = integer(input(“What is your annual salary”)
        Contributions = input(“How much do you contribute to social services”)
        Taxable_income = Annual salary - Contributions
        If Taxable-income <= 250,000 php
            Fixedtax = 0
```

```
                    CompensationLevel = 20000
                    Rate =  0.20
                    taxedsalary = Fixedtax + [(Taxable _income -Compensation Level) * Rate].
                Else Taxable-income <= 250,000 php and Taxable-income >= 400,000 php
                    Monthlydeduct = (Taxable-income-250000) *0.15
                    Taxedsalary = Taxable-income -Monthlydeduct
        I = I+1
        Historylist.append(["0",0])
        print(Historylist)

taxcalc()
```