

Your assignment is to write a program which will ask the user for data to complete a 1040EZ income tax form and calculate the tax or refund. The 1040 EZ is attached.

Your program will ask the user for information for boxes 1,2,3,7

We will assume that you are single so that box 5 will be 10350

Your program will calculate boxes 4, 6, 9, 10, and 12

You don't have to print out the form. rather, simply tell the user in the end the refund or the amount owed (box 13a or 14).

On Line 11, the 1040EZ form asks the taxpayer to use tables. Instead, here are the marginal tax rates you need to implement to find Tax given taxable income calculated for box 6.

$$Tax = \begin{cases} .10x & 0 \leq x \leq 93250 \\ .15x & 9325 < x \leq 37950 \\ .25x & 37950 < x \leq 91900 \\ .28x & 91900 < x \leq 191650 \\ .33x & 191650 < x \leq 416700 \\ .35x & 416700 < x \leq 418400 \\ .39.6x & 418400 < x \end{cases}$$

Here is a python function which returns the amount owed:

```
def totaltax(x):
    tax = 0
    if x > 418400:
        tax = tax + .395*(x - 418400)
        x = 418400
    if x > 416700:
        tax = tax + .35*(x - 416700)
        x = 416700
    if x > 191650:
        tax = tax + .33*(x - 191650)
        x = 191650
    if x > 91900:
        tax = tax + .28*(x - 91900)
        x = 91900
    if x > 37950:
        tax = tax + .25*(x - 37950)
        x = 37950
    if x > 9325:
        tax = tax + .15*(x - 9325)
        x = 9325
    tax = tax + .10*x
    return tax
```