''' **10/7/15**

Donato,Brandon

bdonato1@binghamton.edu

CS 110 - B57

Jia Yang

assignment5Ex1

'''

#What would be your income tax based upon your marital status and your \

#taxable income?

#Outputs:

#Marital Status

#Income

#Taxes

#Inputs:

#Marital Status

#Income

#Functions:

#computeTax():

# The function takes in the marital status and income and then determines\

# the tax bracket the person would be in and then computes the taxes the\

# person owes.

INCOME\_9075 = 9075

INCOME\_18150 = 18150

INCOME\_36900 = 36900

INCOME\_73800 = 73800

INCOME\_89350 = 89350

INCOME\_148850 = 148850

INCOME\_186350 = 186350

INCOME\_226850 = 226850

INCOME\_405100 = 405100

INCOME\_406750 = 406750

INCOME\_457600 = 457600

TAXED\_INCOME\_907\_5 = 907.5

TAXED\_INCOME\_1815 = 1815

TAXED\_INCOME\_5081\_25 = 5081.25

TAXED\_INCOME\_10162\_5 = 10162.5

TAXED\_INCOME\_18193\_75 = 18193.75

TAXED\_INCOME\_28925 = 28925

TAXED\_INCOME\_45353\_75 = 45353.75

TAXED\_INCOME\_50765 = 50765

**Page 1 of 3**

TAXED\_INCOME\_109587\_5 = 109587.5

TAXED\_INCOME\_117541\_25 = 117541.25

TAXED\_INCOME\_118118\_75 = 118118.75

TAXED\_INCOME\_127962\_5 = 127962.5

TAX\_PERCENT\_10 = .10

TAX\_PERCENT\_15 = .15

TAX\_PERCENT\_25 = .25

TAX\_PERCENT\_28 = .28

TAX\_PERCENT\_33 = .33

TAX\_PERCENT\_35 = .35

TAX\_PERCENT\_396 = .396

def computeTax(maritalStatus, income):

if (maritalStatus == "single" or maritalStatus == "Single"):

if (income >= 0 and income <= INCOME\_9075):

tax = (TAX\_PERCENT\_10 \* income)

elif (income > INCOME\_9075 and income <= INCOME\_36900):

tax = (TAXED\_INCOME\_907\_5 + (TAX\_PERCENT\_15 \* income))

elif (income > INCOME\_36900 and income <= INCOME\_89350):

tax = (TAXED\_INCOME\_5081\_25 + (TAX\_PERCENT\_25 \* income))

elif (income > INCOME\_89350 and income <= INCOME\_186350):

tax = (TAXED\_INCOME\_18193\_75 + (TAX\_PERCENT\_28 \* income))

elif (income > INCOME\_186350 and income <= INCOME\_405100):

tax = (TAXED\_INCOME\_45353\_75 + (TAX\_PERCENT\_33 \* income))

elif (income > INCOME\_405100 and income <= INCOME\_406750):

tax = (TAXED\_INCOME\_117541\_25 + (TAX\_PERCENT\_35 \* income))

else:

tax = (TAXED\_INCOME\_118118\_75 + (TAX\_PERCENT\_396 \* income))

else:

if (income >= 0 and income <= INCOME\_18150):

tax = (TAX\_PERCENT\_10 \* income)

elif (income > INCOME\_18150 and income <= INCOME\_73800):

tax = (TAXED\_INCOME\_1815 + (TAX\_PERCENT\_15 \* income))

elif (income > INCOME\_73800 and income <= INCOME\_148850):

tax = (TAXED\_INCOME\_10162\_5 + (TAX\_PERCENT\_25 \* income))

elif (income > INCOME\_148850 and income <= INCOME\_226850):

tax = (TAXED\_INCOME\_28925 + (TAX\_PERCENT\_28 \* income))

elif (income > INCOME\_226850 and income <= INCOME\_405100):

tax = (TAXED\_INCOME\_50765 + (TAX\_PERCENT\_33 \* income))

elif (income > INCOME\_405100 and income <= INCOME\_457600):

tax = (TAXED\_INCOME\_109587\_5 + (TAX\_PERCENT\_35 \* income))

else:

tax = (TAXED\_INCOME\_127962\_5 + (TAX\_PERCENT\_396 \* income))

return tax

**Page 2 of 3**

def main():

maritalStatus = input("Are you single or married? Please type your\

response. ")

income = int(input("What is your taxable income? "))

tax = computeTax(maritalStatus, income)

print("You've entered that you're",maritalStatus,"and that you make $", \

income,"a year. Therefore your income tax is: $", tax)

'''

# tester

# Test values should show 'smooth' transition from one tax bracket to the \

next

states = ['single', 'married']

incomes = [[0,9075, 9076, 36900, 36901, 89350, 89351,

186350, 186351, 405100, 405101, 406750, 406751],

[0, 18150, 18151, 73800, 73801, 148850, 148851,

226850, 226851, 405100, 405101, 457600, 457601]]

for i in range(len(states)):

for j in range(len(incomes[0])):

print("%s, $%.2f = $%.2f" % \

(states[i], incomes[i][j], computeTax(states[i], incomes[i][j])))

'''

main()

**Page 3 of 3**