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# Project: Lab04 (VoMikeLab04SecHY02Ver02.py)
# Name: Mike Vo
# Name: Mile 01/26/17
# Description: This program has 2 parts:
#
   Part 1: BMI Calculator:
#
       User enters weight(lb) and height(in), program calculates BMI and
       return a notification if their BMI is in, below, or above healthy
#
       level
#
  Part 2: U.S. Congress eligibility engine:
       Determine whether the user is eligible to run for Congress, using
       their input of their age and years of being a U.S. citizen
# Part 1
def MainA():
    ### Print part 1 header to shell ###
    print( "----" )
                      Mike's BMI Calculator
    print( "
                                                       \n")
    ### User input ###
    fltWeightLb = float( input( "Your weight (lb): " ) )
    fltHeightInch = float( input( "Your height (in): " ) )
    ### Calculate user's BMI ###
    fltBMI = ( fltWeightLb * 703 ) / ( fltHeightInch * fltHeightInch )
    ### Determine weather user's BMI is above, below or in the healthy
range ###
    if fltBMI < 19:
       print( "Your BMI ({0:0.2f}) is below healthy level".format(
    elif fltBMI > 25:
       print( "Your BMI ({0:0.2f}) is above healthy level".format(
fltBMI ) )
   else:
       print( "Your BMI ({0:0.2f}) is in healthy level".format( fltBMI )
)
    print()
# Part 2
def MainB():
    ### Print part 2 header to shell ###
    print( "----" )
    print( "MUSCLE U.S. Congress-eligibility Engine (MUSCLE)\n" )
    ### User input ###
   intAge = int( input( "Your age: " ) )
    intYearsOfUSCitizenship = int( input( "Year(s) of U.S. citizenship: "
) )
```

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### Determine user's U.S. Congress eligibility ###
    # First if to catch illogical numbers
    if intYearsOfUSCitizenship > intAge:
        print( "Are you kidding me?" )
    # The next ifs are the actual Congress eligibility algorithm
    elif intYearsOfUSCitizenship >= 9:
        if intAge >= 30:
            print( "You are eligible to be a Senator or a Representative"
)
        elif intAge \geq 25:
           print( "You are eligible to be a Representative" )
    elif intYearsOfUSCitizenship >= 7:
        if intAge >= 25:
           print( "You are eligible to be a Representative" )
    else:
        # This is to check if someone enter some negative numbers
        if intAge > 0:
            if intYearsOfUSCitizenship > 0:
                # This is to check if someone want to know if their 3
year-old
                # child is eligible to run for U.S. Congress (No),
asuming a 4
                # year-old-and-above can use a computer
                if intAge <= 3:
                   print( "Your child is not eligible to run for
Congress" )
                else:
                   print( "You are not eligible to run for Congress" )
    ### Ifs to warn about abnormal numbers ###
    if intAge < 0:
        print( "Your age can't be negative!" )
    elif intAge > 100:
        print( "Are you sure about your age?" )
    if intYearsOfUSCitizenship < 0:</pre>
        print ( "You can't be a U.S. citizen for a negative number of
year(s)!")
    print()
# Main program
def main():
    ### Display main header (in shell) ###
    print( "#################" )
   print( "#
                      Mike Vo - CSC110 HY02 Lab04
    print( "#
                                Ver. 02
    print( "########################" n" )
```

```
### Try-Except structure to check for wrong format inputs ###
try:

    # Evoke part 1
    MainA()
    # Evoke part 2
    MainB()

except ValueError:
    # A message about how the program blew up
    print( "Your input format is wrong. The program blew up...
Sorry.\n" )
main()
```