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# Project:      Lab04 (VoMikeLab04SecHY02Ver02.py)
# Name:         Mike Vo
# Date:         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( "-----" )
    print( "                Mike's BMI Calculator                \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 whether 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(
fltBMI ) )
    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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### 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()
```