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In [ ]: """ this programme is made as a prototype for body mass index (BMI),gives body mass index of your body by taking height weight.

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Language used: python
interpretor: jupyter

module used:
DECIMAL
COLORAMA(fore)

Function used :float,str,fore,exception,while,if,else,pass
key used:true,print,in
Error Handler: try, except
'''

import decimal
from colorama import Fore

print(Fore.LIGHTMAGENTA_EX+'''                                BMI   INDEX CHART

BMI RANGE                RESULT                REMARK
< 16                    Severe thinness        bulk up(poor)
16 - 17                  Moderate thinness      Gain some weight(poor)
17 - 18.5                Underweight           Gain some weight
18.5 - 24.9              Normal                Perfect
25.0 - 29.9              Overweight            Loose some weight(poor)
30.0 - 34.9              Obese(class I)         Very poor
35.0 - 39.9              Obese(class II)        Hard up
40 or grater             Extremely obese(class III)  Terrible
''')

while True:
    try:
        height=float(input("enter your height (cm)"))
        height_suffix='cms'
        height_str=str(height)
        suffix_h= height_str+height_suffix
        print("")
        weight=float(input("enter your weight (kg)"))
        weight_suffix='kgs'
        weight_str=str(weight)
        suffix_w= weight_str+weight_suffix
        height_meter=height/100
        final_height=height_meter**2
        bmi=weight/final_height
        final_bmi=round(bmi,1)
        print(Fore.LIGHTBLUE_EX+"your height:--",suffix_h)
        print("")
        print(Fore.LIGHTBLUE_EX+"your weight:--",suffix_w)
        print("")

        list1=(9.0, 9.1, 9.2, 9.3, 9.4, 9.5, 9.6, 9.7, 9.8, 9.9, 10.0, 10.1, 10.2,
                10.3, 10.4, 10.5, 10.6, 10.7, 10.8, 10.9, 11.0, 11.1, 11.2, 11.3, 11.4,
                11.5, 11.6, 11.7, 11.8, 11.9, 12.0, 12.1, 12.2, 12.3, 12.4, 12.5, 12.6,
                12.7, 12.8, 12.9, 13.0, 13.1, 13.2, 13.3, 13.4, 13.5, 13.6, 13.7, 13.8,
                13.9, 14.0, 14.1, 14.2, 14.3, 14.4, 14.5, 14.6, 14.7, 14.8, 14.9,15.0,
                15.1, 15.2, 15.3, 15.4, 15.5, 15.6, 15.7, 15.8, 15.9, 16.0)
        if height==0 or height>=215:
            print(Fore.MAGENTA+"please enter possible height")
        elif height==" ":
            print("height can't be blank")
        else:
            pass
        if weight==0 or weight>=215:
            print(Fore.MAGENTA+"please enter possible weight")
        elif weight==" ":
            print("height can't be blank")
        else:
            pass

        if final_bmi in list1:
            print(Fore.LIGHTYELLOW_EX+"your BMI index_-",final_bmi,"(Severe thinness)")
        else:
            pass
        list2=(16.0, 16.1, 16.2, 16.3, 16.4, 16.5, 16.6, 16.7, 16.8, 16.9, 17.0)
        if final_bmi in list2:
            print(Fore.LIGHTYELLOW_EX+"your BMI index_-",final_bmi,"(Moderate thinness)")
        else:
            pass
        list3=(17.0, 17.1, 17.2, 17.3, 17.4, 17.5, 17.6, 17.7, 17.8, 17.9, 18.0, 18.1, 18.2, 18.3, 18.4, 18.5)
        if final_bmi in list3:
            print(Fore.YELLOW+"your BMI index_-",final_bmi,"(Underweight)")
        else:
            pass
        list4=(18.5, 18.6, 18.7, 18.8, 18.9, 19.0, 19.1, 19.2, 19.3, 19.4, 19.5, 19.6, 19.7, 19.8, 19.9, 20.0, 20.1, 20.2, 20.3,
                20.4, 20.5, 20.6, 20.7, 20.8, 20.9, 21.0, 21.1, 21.2, 21.3, 21.4, 21.5, 21.6, 21.7, 21.8, 21.9, 22.0, 22.1, 22.2, 22.3, 22.4,
                22.5, 22.6, 22.7, 22.8, 22.9, 23.0, 23.1, 23.2, 23.3, 23.4, 23.5, 23.6, 23.7, 23.8, 23.9, 24.0, 24.1, 24.2, 24.3, 24.4, 24.5,
                24.6, 24.7, 24.8, 24.9, 25.0)
        if final_bmi in list4:
            print(Fore.GREEN+"your BMI index_-",final_bmi,"(Normal)")
        else:
            pass
        list5=(25.0, 25.1, 25.2, 25.3, 25.4, 25.5, 25.6, 25.7, 25.8,
                25.9, 26.0, 26.1, 26.2, 26.3, 26.4, 26.5, 26.6, 26.7, 26.8, 26.9, 27.0, 27.1, 27.2,
                27.3, 27.4, 27.5, 27.6, 27.7, 27.8, 27.9, 28.0, 28.1, 28.2, 28.3, 28.4, 28.5, 28.6, 28.7,
                28.8, 28.9, 29.0, 29.1, 29.2, 29.3, 29.4, 29.5, 29.6, 29.7, 29.8, 29.9)
        if final_bmi in list5:
            print(Fore.LIGHTRED_EX+"your BMI index_-",final_bmi,"(overweight)")
        else:
            pass
        list6=(30.0, 30.1, 30.2, 30.3, 30.4, 30.5, 30.6, 30.7, 30.8,
                30.9, 31.0, 31.1, 31.2, 31.3, 31.4, 31.5, 31.6, 31.7,
                31.8, 31.9, 32.0, 32.1, 32.2, 32.3, 32.4, 32.5, 32.6, 32.7,
                32.8, 32.9, 33.0, 33.1, 33.2, 33.3, 33.4, 33.5, 33.6, 33.7, 33.8, 33.9,
                34.0, 34.1, 34.2, 34.3, 34.4, 34.5, 34.6, 34.7, 34.8, 34.9)
        if final_bmi in list6:
            print(Fore.LIGHTRED_EX+"your BMI index_-",final_bmi,"(Obese(class I))")
        else:
            pass
        list7=(35.0, 35.1, 35.2, 35.3, 35.4, 35.5, 35.6, 35.7, 35.8, 35.9,
                36.0, 36.1, 36.2, 36.3, 36.4, 36.5, 36.6, 36.7, 36.8, 36.9, 37.0,
                37.1, 37.2, 37.3, 37.4, 37.5, 37.6, 37.7, 37.8, 37.9, 38.0, 38.1,
                38.2, 38.3, 38.4, 38.5, 38.6, 38.7, 38.8, 38.9, 39.0, 39.1, 39.2, 39.3,
                39.4, 39.5, 39.6, 39.7, 39.8, 39.9)
        if final_bmi in list7:
            print(Fore.RED+"your BMI index_-",final_bmi,"(Obese(class II))")
        else:
            pass
        list8=(40.0, 40.1, 40.2, 40.3, 40.4, 40.5, 40.6, 40.7, 40.8, 40.9, 41.0, 41.1, 41.2,
                41.3, 41.4, 41.5, 41.6, 41.7, 41.8, 41.9, 42.0, 42.1, 42.2, 42.3, 42.4, 42.5, 42.6,
                42.7, 42.8, 42.9, 43.0, 43.1, 43.2, 43.3, 43.4, 43.5, 43.6, 43.7, 43.8, 43.9, 44.0, 44.1,
                44.2, 44.3, 44.4, 44.5, 44.6, 44.7, 44.8, 44.9, 45.0, 45.1, 45.2, 45.3, 45.4, 45.5, 45.6, 45.7,
                45.8, 45.9, 46.0, 46.1, 46.2, 46.3, 46.4, 46.5, 46.6, 46.7, 46.8, 46.9, 47.0, 47.1, 47.2, 47.3, 47.4,
                47.5, 47.6, 47.7, 47.8, 47.9, 48.0, 48.1, 48.2, 48.3, 48.4, 48.5, 48.6, 48.7, 48.8, 48.9, 49.0, 49.1, 49.2,
                49.3, 49.4, 49.5, 49.6, 49.7, 49.8)
        if final_bmi in list8:
            print(Fore.RED+"your BMI index_-",final_bmi,"(Obese(class III))")

    except Exception as e:
        print("something error",e)
break
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