

#100869378

#Ashley Cheyenne Conejo Molina

import tkinter as tk

class BMI_Calculator:

def __init__(self, master):

self.master = master

master.title("BMI Calculator")

self.weight_label = tk.Label(master, text="Weight (kg): ")

self.weight_label.grid(row=0, column=0)

self.weight_entry = tk.Entry(master)

self.weight_entry.grid(row=0, column=1)

self.height_label = tk.Label(master, text="Height (m): ")

self.height_label.grid(row=1, column=0)

self.height_entry = tk.Entry(master)

self.height_entry.grid(row=1, column=1)

self.calculate_button = tk.Button(master, text="Calculate", command=self.calculate_bmi)

self.calculate_button.grid(row=2, column=0)

self.result_label = tk.Label(master, text="")

self.result_label.grid(row=2, column=1)

def calculate_bmi(self):

weight = float(self.weight_entry.get())

height = float(self.height_entry.get())

bmi = self.calculate_bmi_number(weight, height)

bmi_status = self.get_bmi_status_description(bmi)

self.result_label.configure(text=f"BMI: {bmi:.2f}, {bmi_status}")

def calculate_bmi_number(self, weight_kg, height_m):

bmi = weight_kg / (height_m ** 2)

return bmi

def get_bmi_status_description(self, bmi):

if bmi <= 18.5:

return 'Underweight'

elif 18.5 < bmi <= 24.9:

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        return 'Health Weight'  
    elif 25 < bmi <= 29.29:  
        return 'Overweight'  
    elif bmi > 29.29:  
        return 'Obese'
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root = tk.Tk()  
my_gui = BMI_Calculator(root)  
root.mainloop()
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