

程式醫學應用（第11週）課堂作業

<https://github.com/redporcupine/PLMA/blob/main/20240429/exercise7.ipynb>

M1107009 施竣元

exercise7.ipynb × exercise4.ipynb

20240429 > exercise7.ipynb > def BMI_calculator(weight, height):

+ Code + Markdown | ▶ Run All ↺ Restart | ▶ Execute Group 1 || ▶ Execute Group 2 | ☰ Clear All Outputs | 📄 Variables ... Python 3.11.0

▶ ▾

```
def draw_christmas_tree(height):
    for i in range(1, height + 1):
        print(' ' * (height - i) + '*' * (2 * i - 1))
    for i in range(5):
        print(' ' * (height - 2) + '*' * 3)
height = int(input('Enter the height of the tree you want: '))
draw_christmas_tree(height)
```

[9] ✓ 2.2s Python

...

▶ ▾

```
def BMI_calculator(weight, height):
    BMI = weight / ((height / 100) ** 2)
    if BMI < 18.5:
        return(f"BMI:{BMI}\n體位:過輕")
    elif BMI < 24:
        return(f"BMI:{BMI}\n體位:適中")
    elif BMI < 27:
        return(f"BMI:{BMI}\n體位:過重")
    else:
        return(f"BMI:{BMI}\n體位:肥胖")
switch = True
switch_2 = True
while switch:
    try:
        height = int(input("請輸入您的身高(公分): "))
        print(f"身高(公分):{height}")
        switch = False
    except ValueError:
        print("輸入內容錯誤")
        continue
while switch_2:
    try:
        weight = int(input("請輸入您的體重(公斤): "))
        print(f"體重(公斤):{weight}")
        switch_2 = False
    except ValueError:
        print("輸入內容錯誤")
        continue
print(BMI_calculator(weight, height))
```

[6] ✓ 9.3s Python

...

身高(公分):180
體重(公斤):86
BMI:26.54320987654321
體位:過重

我是使用vscode所以「請輸入4個數字」input提示並不會print在terminal，而是以視窗形式跳出。