



程式設計概論  
Programming 101  
—輸入的函數  
(input function)

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DATE: 3/18/2024

Get user input data  
use `input()` function

# input() function

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## ▶ Example

- `a = input('Please enter 1st number: ')`
- `b = input('Please enter 2nd number: ')`
- `print(a + b)`

Result ?



說明:因為輸入(**input**)  
的內容被當成一般文字，  
而加號為文字的連接



Solution:  
`print(int(a) + int(b))`

# input() function (cont.)

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- ▶ Any data entered by the user is defined as a string.

## Python code

```
a = input('Please enter 1st number: ')\nb = input('Please enter 2nd number: ')\nprint(int(a)+ int(b))
```

type(a) and type(b)  
→ <class 'str'>

=

```
a = int(input('Please enter 1st number: '))\nb = int(input('Please enter 2nd number: '))\nprint(a + b)
```

type(a) and type(b)  
→ <class 'int'>

# Practice

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- ▶ 請撰寫一個Python程式，它可以讓使用者輸入梯形的上底、下底與高，計算梯形面積並印出結果
  - ▶ 面積=(上底+下底)\*高/2
  - ▶ 將面積取到小數點後一位

# Student Exercise\_3

# Question 1

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2. 請撰寫一個Python程式，它可以讓使用者輸入兩個點的x,y座標，然後計算兩點的距離並印出結果，將結果取到小數點後兩位。

\* 兩點distance= $\sqrt{(x1 - x2)^2 + (y1 - y2)^2}$

# Review

- ▶ Textbook: chapter 2: 2.6