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

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Get user input data use input() function

input() function

► Example

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





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

Python code

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

type(a) and type(b)

 \rightarrow <class 'str'>

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

type(a) and type(b) → <class 'int'> 4

Practice

Please write a Python program that allows the user to input the top base, bottom base, and height of a trapezoid (梯形), calculates the area of the trapezoid, and prints this area

area=(top_base + bottom_base)* height /2

Round the area to one decimal place

Student Exercise_3

Question 1

2. Please write a Python program that allows the user to input the x and y coordinates of two points, then calculates the distance between them, prints it, and rounds it to two decimal places."

* The two point are (x1,y1) and (x2,y2), distance= $\sqrt[2]{(x1-x2)^2 + (y1-y2)^2}$

Question 2

At a university, each student is assigned a system login name, which the student uses to log into the campus computer system. You will use the following algorithm government of the system are a login name:

1. Get the first three characters of the student's first name. (The first name is more than two characters in length)

2. Get the first three characters of the student's last name. (The last name is more than two characters in length)

3. Get the last three characters of the student's ID number. (If the ID number is more than two characters in length)

4. Concatenate the three sets of characters to generate the login name.

For example, if a student's name is Amanda Spencer, and her ID number is ENG6721, her login name would be AmaSpe721.

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Review

► Textbook: chapter 2: 2.6

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