

0_4_Function

函式 (Function) 定義和使用

```
# 函式定義
def 函數名稱 (輸入參數) :
    ...
    ...
    ...

# 函式使用
函數名稱 (輸入參數)
```

```
def chk_even(no):
    if no % 2 == 0 :
        print(f"no : {no} is even")
    else :
        print(f"no : {no} is odd")

chk_even(2) # no 2 is even
chk_even(3) # no 3 is odd
```

函式多個輸入參數

```
1  # 函式定義
2  def 函數名稱 (輸入參數1, 輸入參數2, ...) :
3      ...
4      ...
5      ...
6
7  # 函式使用
8  函數名稱 (輸入參數1, 輸入參數2, ...)
```

```
1  def sum_no(no1, no2, no3):
2      sum = no1 + no2 + no3
3      print(f"sum of {no1},{no2},{no3} = {sum}")
4
5  sum_no(2, 4, 6) # sum of 2,4,6 = 12
```

函式無輸入參數

```
# 函式定義
def 函數名稱():
    ...
    ...
    ...

# 函式使用
函數名稱()
```

```
def say_hi():
    print("Hello !!!")

say_hi() # Hello !!!
```

函式回傳值

```
def function_name(...):
    ...
    return ...
```

```
def add_list3(no_list):
    sum = 0
    sum += no_list[0]
    sum += no_list[1]
    sum += no_list[2]
    return sum

ans = add_list3([4,4,3])
print(ans)
```

```
11
```

函式輸入預設值

```
1 | def say_hi(name='Ted'):
2 |     return f"Hi {name}"
3 |
4 | print(f"say_hi() {say_hi()}\n")
5 | print(f"say_hi('NDHU') {say_hi('NDHU')}")
```

```
say_hi() Hi Ted
```

```
say_hi('NDHU') Hi NDHU
```

