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## 为字典增加一项

- dictionaryName[key] = value
- 举例:

```
>>> students = {"203-2012-045":"John", "203-2012-037":"Peter"}
>>> students["202-2011-121"] = "Susan" #增加一个新的数据项
```



#### 访问字典中的值

- dictionaryName[key] 返回键key对应的值value
- 举例:

```
>>> students["202-2011-121"] = "Susan" #增加一个新的数据项
>>> students["202-2011-121"]
'Susan'
>>> students["202-2012-045"]
Traceback (most recent call last):
    File "<pyshell#3>", line 1, in <module>
        students["202-2012-045"]
KeyError: '202-2012-045'
>>> |
```



# 删除字典中的一项

del dictionaryName[key]

■ 举例:

>>> del students["202-2011-121"]



## 字典的遍历

for key in students:

```
print (key + ":" + str(stuendents[key]))
```

■ 举例

#### 字典的遍历

- 遍历字典的键keyfor key in dictionaryName.keys(): print.(key)
- 遍历字典的值value for value in dictionaryName.values(): print.(value)
- 遍历字典的项for item in dicitonaryName.items(): print.(item)
- 遍历字典的key-value
- for item, value in adict.items(): print(item, value)

#### 是否一个键在字典中

- in 或者 not in
- 举例

```
>>> students = {"203-2012-045":"John", "203-2012-037":"Peter"}
>>> "203-2012-045" in students
True
>>> "203-2015-045" in students
False
>>>
```



## 字典的标准操作符

- , <,>,<=,>=,==,!=,and, or, not
- 字典相等测试

```
>>> d1 = {"red":41, "blue":3}

>>> d2 = {"blue":3, "red":41}

>>> d1 == d2

True

>>> d1 !=d2

False

>>> |
```



#### Python还提供了丰富的字典方法,其中:

keys():tuple 返回一个包含字典所有Key的列表 values():tuple 返回一个包含字典所有value的列表 Items():tuple 返回一一个包含所有键值的列表 clear():None 删除字典中的所有项目 get(key):value 返回字典中key对应的值 pop(key):val 删除并返回字典中key对应的值 将字典中的键值添加到字典中 update(字典)

## 字典的方法

```
>>> students = {"203-2012-045":"John", "203-2012-037":"Peter"}
>>> tuple(students.keys())
('203-2012-045', '203-2012-037')
>>> tuple(students.values())
('John', 'Peter')
>>> tuple(students.items())
(('203-2012-045', 'John'), ('203-2012-037', 'Peter'))
>>> students.get("203-2012-045")
'John'
>>> students.pop("203-2012-045")
'John'
>>> students
{'203-2012-037': 'Peter'}
>>> students.clear()
>>> students
{}
```