Adding and Deleting elements - set

Let us see how we can add and delete elements to the set in Python.

• We can add elements to set or update existing ones.

s.pop()

```
o add
     update
     o union
• We can delete elements from the set using different functions.
     o remove
     • discard
     o clear
 s = \{1, 2, 3, 3, 3, 4, 4\}
 s.add(5)
   {1, 2, 3, 4, 5}
 s.update?
  Docstring: Update a set with the union of itself and others.
             builtin_function_or_method
 s.update({4, 5, 6, 7})  # Updates the set on which update is invoked
  {1, 2, 3, 4, 5, 6, 7}
 s.union?
  Docstring:
  Return the union of sets as a new set.
   (i.e. all elements that are in either set.)
             builtin_function_or_method
 s = \{1, 2, 3, 4, 5\}
 s.union({4, 5, 6, 7}) # Creates new set
  {1, 2, 3, 4, 5, 6, 7}
   {1, 2, 3, 4, 5}
 s.pop?
  Docstring:
  Remove and return an arbitrary set element.
  Raises KeyError if the set is empty.
  Type:
             builtin_function_or_method
```

```
s
 {2, 3, 4, 5}
s.remove?
 Docstring:
 Remove an element from a set; it must be a member.
 If the element is not a member, raise a KeyError.
            builtin_function_or_method
 Type:
s.remove(4)
 {2, 3, 5}
s.remove(6) # 6 does not exist, throws KeyError
 KeyError
                                            Traceback (most recent call last)
 <\!ipython-input-17-b3638b2cbd97\!>\ \textbf{in}\ <\!module\!>
 ----> 1 s.remove(6) # 6 does not exist, throws KeyError
 KeyError: 6
s = \{1, 2, 3, 4, 5\}
s.discard?
 Docstring:
 Remove an element from a set if it is a member.
 If the element is not a member, do nothing.
           builtin_function_or_method
 Type:
s.discard(4)
S
 {1, 2, 3, 5}
s.discard(6)
S
 {1, 2, 3, 5}
s.clear?
 Docstring: Remove all elements from this set.
            builtin_function_or_method
s.clear()
```

set()

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