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"""
Topic: Any & All in Python
@author: Varpe K. M.
"""
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Any and All
are two built ins provided in python used for successive And/Or.

Any

Returns true if any of the items is True.
It returns False if empty or all are false.
Any can be thought of as a sequence of
OR operations on the provided iterables.
It short circuit the execution i.e.
stop the execution as soon as the result is known.

Syntax : any(list of iterables)

```
"""
# Since all are false, false is returned
print (any([False, False, False, False]))

# Here the method will short-circuit at the
# second item (True) and will return True.
print (any([False, True, False, False]))

# Here the method will short-circuit at the
# first (True) and will return True.
print (any([True, False, False, False]))
"""
```

All

Returns true if all of the items are True
(or if the iterable is empty).
All can be thought of as a sequence of
AND operations on the provided iterables.
It also short circuit the execution i.e.
stop the execution as soon as the result is known.

Syntax : all(list of iterables)

```
"""
# Here all the iterables are True so all
# will return True and the same will be printed
print (all([True, True, True, True]))

# Here the method will short-circuit at the
# first item (False) and will return False.
print (all([False, True, True, False]))

# This statement will return False, as no
# True is found in the iterables
print (all([False, False, False]))
"""
```