Membership Operators

s2 = s1.lower()

```
in
```

```
not in
  val1 = 'p'
  val2 = 'python'
  print(val1 in val2)
  print('p' in 'python')
      True
  print( 1 in 10)
                                      Traceback (most recent call last)
      <ipython-input-3-a873c738f4ae> in <module>
      ----> 1 print( 1 in 10)
      TypeError: argument of type 'int' is not iterable
      SEARCH STACK OVERFLOW
  print(1 in 'python')
                                      Traceback (most recent call last)
      TypeError
      <ipython-input-4-7c6225ecb728> in <module>
      ----> 1 print(1 in 'python')
      \label{thm:typeError: 'in <string>' requires string as left operand, not int} \\
      SEARCH STACK OVERFLOW
  print('h' not in 'welcome')
      True
  print('welcome' in 'welcome')
      True
  print('w' in 'welcome')
      True
Identity Operators
  is
  is not
  s1 = 'python'
```

```
print(s1, id(s1))
print(s2;18如(s2))
print(s2;18如(s2))
 print(s1 == s2)
     True
 print(s1 is s2)
     False
 s1 = 'hyderabad'
 s2 = s1
 print(s1, id(s1))
 print(s2, id(s2))
     hyderabad 139695260142896
     hyderabad 139695260142896
 print(s1 == s2)
     True
 print(s1 is s2)
     True
 print(s1 is not s2)
     False
Logical Operators
 or
 and
 not
 print(True or True)
     True
 print(True or False)
     True
 print(False or True)
     True
 print(False or False)
     False
 print(10 or True)
     10
```

```
print(10 or 0)
print(True or False)
  True
print(-100 or 100)
   -100
print(False or None)
  None
print(False or 10)
print(False or -0.39)
  -0.39
print(0 or None)
  None
print(True and True)
  True
print(True and False)
  False
print(False and True)
  False
print(False and False)
  False
print(10 and 20)
  20
print(20 and False)
  False
print(0 and None)
print('welcome' and 'thank you')
  thank you
print(not True)
```

False

```
print(not False)
    True

print(not 100)
    False

print(not None)
    True

print(not -105)
    False

print(162 and 'sai' or 'python' or 0.2)
    sai

print()
```

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