```
""" Python Program
Operators
@author: Varpe K. M.
....
Python Membership and Identity Operators | in, not in, is, is not
Membership operators:
        are operators used to validate the membership of a value.
        It test for membership in a sequence,
        such as strings, lists, or tuples.
....
....
in operator :
    The 'in' operator is used to check
    if a value exists in a sequence or not.
    Evaluates to true if it finds a variable in
    the specified sequence and false otherwise.
....
# Python program to illustrate
# Finding common member in list
# using 'in' operator
list1=[1,2,3,4,5]
list2=[6,7,8,9]
for item in list1:
    if item in list2:
        print("overlapping")
    print("at item ", item)
else:
    print("not overlapping")
Same example without using in operator:
Study after FUNCTIONS
# Python program to illustrate
# Finding common member in list
# without using 'in' operator
# Define a function() that takes two lists
def overlapping(list1,list2):
    c=0
    d=0
    for i in list1:
        c+=1
    for i in list2:
       d+=1
    for i in range(0,c):
        for j in range(0,d):
            if(list1[i]==list2[j]):
                return 1
     return 0
list1=[1,2,3,4,5]
list2=[6,7,8,9]
if(overlapping(list1,list2)):
    print("overlapping")
else:
    print("not overlapping")
....
```

```
'not in' operator-
       Evaluates to true if it does not finds a variable
        in the specified sequence and false otherwise.
# Python program to illustrate
# not 'in' operator
x = 24
y = 20
list = [10, 20, 30, 40, 50];
if ( x not in list ):
   print("x is NOT present in given list")
else:
  print("x is present in given list")
if ( y in list ):
  print("y is present in given list")
else:
print("y is NOT present in given list")
"""
Identity operators
In Python are used to determine whether a value
is of a certain class or type.
They are usually used to determine the type of data
a certain variable contains.
There are different identity operators such as
'is' operator -
    Evaluates to true if the variables on either side
    of the operator point to the same object and false otherwise.
# Python program to illustrate the use
# of 'is' identity operator
x = 5
if (type(x) is int):
    print ("true")
else:
   print ("false")
'is not' operator -
    Evaluates to false if the variables on either side
    of the operator point to the same object and true otherwise.
# Python program to illustrate the
# use of 'is not' identity operator
x = 5.2
if (type(x) is not int):
   print ("true")
else:
    print ("false")
```