

Aim:

Write a python program to check whether the values of a list exist or not (use membership operator) and also perform identity operation?

Source Code:CompanIdent.py

```
a=list(map(int,input("Enter Numbers Separated By Commas : ").split(",")))
print("List : ",a)
b=int(input("Enter an element to find : "))
if b in a:
    print("Element Found in list")
else:
    print("Element Not Found in list")
print("Copy all List elements to Another Variable List 2")
c=a
b=list(map(int,input("Enter Numbers Separated By Commas : ").split(",")))
print("List 1 : ",a)
print("List 2 : ",c)
print("List 3 : ",b)
if a is c:
    print("List 1 and List 2 have Same identity")
else:
    print("List 1 and List 2 have Different identity")
if c is not b:
    print("List 2 and List 3 have Different identity")
else:
    print("List 2 and List 3 have Same identity")
```

Execution Results - All test cases have succeeded!

| Test Case - 1 |
|---|
| User Output |
| Enter Numbers Separated By Commas : 1,2,3 |
| List : [1, 2, 3] 2 |
| Enter an element to find : 2 |
| Element Found in list 1,2,3,4 |
| Copy all List elements to Another Variable List 2 1,2,3,4 |
| Enter Numbers Separated By Commas : 1,2,3,4 |
| List 1 : [1, 2, 3] |
| List 2 : [1, 2, 3] |
| List 3 : [1, 2, 3, 4] |
| List 1 and List 2 have Same identity |
| List 2 and List 3 have Different identity |