

PYTHON: ASSIGNMENT 02(Intermittent Questions)

PROBLEM STATEMENT 1:

Given a list

L : [1,1,1,1,2,2,3,3,3,3,4,5]

Write a program to print only unique elements

Note : Don't convert List to Set

Expected Output

Unique List : [1, 2, 3, 4, 5]

CODE:

```
L=[1,1,1,1,2,2,3,3,3,3,4,5]
print("The given list:" ,L)
new_list=[]
for i in L:
    if i not in new_list:
        new_list.append(i)
print("The unique values in the list are:", new_list)
```

EXECUTION:

✓
1s



```
L=[1,1,1,1,2,2,3,3,3,3,4,5]
print("The given list:" ,L)
new_list=[]
for i in L:
    if i not in new_list:
        new_list.append(i)
print("The unique values in the list are:", new_list)
```

The given list: [1, 1, 1, 1, 2, 2, 3, 3, 3, 3, 4, 5]
The unique values in the list are: [1, 2, 3, 4, 5]

OUTPUT:

The given list: [1, 1, 1, 1, 2, 2, 3, 3, 3, 3, 4, 5]

The unique values in the list are: [1, 2, 3, 4, 5]

PROBLEM STATEMENT 2:

Given a list

`L = [1,2,3,4, [4,3]]`

Check if the given number exist in the inner list

CODE:

```
l=[1,2,3,4,[4,5]]
print("The given list is:" ,l)
index=l[4]
x=input("Enter the number: ")
if int(x) in index:
    print("The given number exists in the inner list")
else:
    print("The number does not exists in the list")
```

EXECUTION:

Case1:

When user input exists in the list

```
✓ [2] l=[1,2,3,4,[4,5]]  
5s   print("The given list is:" ,l)  
      index=(l[4])  
      x=input("Enter the number: ")  
      if int(x) in index:  
          print("The given number exists in the inner list")  
      else:  
          print("The number does not exists in the list")
```

```
The given list is: [1, 2, 3, 4, [4, 5]]  
Enter the number: 5  
The given number exists in the inner list
```

Case2:

When user input does not exist in the list

```
✓ [3] l=[1,2,3,4,[4,5]]  
3s   print("The given list is:" ,l)  
      index=(l[4])  
      x=input("Enter the number: ")  
      if int(x) in index:  
          print("The given number exists in the inner list")  
      else:  
          print("The number does not exists in the list")
```

```
The given list is: [1, 2, 3, 4, [4, 5]]  
Enter the number: 7  
The number does not exists in the list
```

OUTPUT:

```
☞ The given list is: [1, 2, 3, 4, [4, 5]]  
Enter the number: 7  
The number does not exists in the list
```

```
☞ The given list is: [1, 2, 3, 4, [4, 5]]  
Enter the number: 4  
The given number exists in the inner list
```