

LAB 3: Program to find the intersection of two lists

Program Logic

1. Write a function to find the intersection of two lists
2. Take input for two lists
3. Print the two lists
4. Call the function by passing two lists
5. Print the intersection of two lists

Defining function for finding intersection of two lists

In [1]:

```
def intersection(m,n):  
    inter_list=[]  
    inter_list=[value for value in m if value in n]  
    return inter_list
```

Initialise two lists

In [2]:

```
list1 = [2,4,6,8,10,12]  
list2 = [1,3,4,5,9,10,45]
```

Calling the function

In [3]:

```
list3 = intersection(list1,list2)
```

Print the intersection of two lists

In [4]:

```
print("Intersection of list 1: {} and\n list 2: {}\n is : {}".format(list1,list2,list3  
)
```

```
Intersection of list 1: [2, 4, 6, 8, 10, 12] and  
list 2: [1, 3, 4, 5, 9, 10, 45]  
is : [4, 10]
```

In []: