

## ASSIGNMENT-6

- 1) 

```
Def sublist(list1, list2):
    if list2 == []:
        return True
    for i in range(len(list1)):
        if list1[i:i + len(list2)] == list2:
            return True
    else
        return False
a = [2, 4, 3, 5, 7]
b = [4, 3]
c = [3, 7]
print(sublist(a, b))
print(sublist(a, c))
```
  
- 2) 

```
def find_common_items(list1, list2):
    common_items = [item for item in list1 if item in list2]
    return common_items
color1 = ["Red", "Green", "Orange", "White"]
color2 = ["Black", "Green", "White", "Pink"]
common_colors = finding_common_items(color1, color2)
print(common_colors)
```
  
- 3) 

```
def find_list_difference(list1, list2):
    set1 = set(list1)
    set2 = set(list2)
    difference = list(set1 - set2)
    return difference
list1 = [1, 2, 3, 4]
list2 = [1, 2]
result = find_list_difference(list1, list2)
print(result)
```
  
- 4) 

```
import itertools
intlist = [1, 2, 3]
result = list(itertools.permutations(intlist))
print(result)
```
  
- 5) 

```
a = [10, 20, 30, 20, 10, 50, 60, 40, 80, 50, 40]
unique_list = []

for item in a:
    if item not in unique_list:
        unique_list.append(item)

print(unique_list)
```