Python Practical Set- 2

1) **Merger two list with tuple order:**

Program->

```
class MergeEle():
   def init(self):
      list1 = []
      list2 = []
      list3 = []
      l1_length = int(input("Enter first list length: "))
      l2_length = int(input("Enter second list length: "))

      for i in range(l1_length) :
         l1_data = input()
         list1.append(l1_data)
      print(list1)

      for i in range(l2_length) :
         l2_data = input()
         list2.append(l2_data)
      print(list2)

      for i in range(max(l1_length, l2_length)) :
         while True :
            try :
               l3_data = (list1[i], list2[i])
            except IndexError :
               if l1_length > l2_length :
                  list2.append('')
                  l3_data = (list1[i], list2[i])
               elif l1_length < l2_length :
                  list1.append('')
                  l3_data = (list1[i], list2[i])

            list3.append(l3_data)
            break

      print(list3)

MergeEle.init(0)
```

Input/Output:

```
Enter first list length: 3
Enter second list length: 3
a
b
c
['a', 'b', 'c']
x
y
z
['x', 'y', 'z']
[('a', 'x'), ('b', 'y'), ('c', 'z')]

Enter first list length: 5
Enter second list length: 3
a
b
c
p
q
['a', 'b', 'c', 'p', 'q']
x
y
z
['x', 'y', 'z']
[('a', 'x'), ('b', 'y'), ('c', 'z'), ('p', ''), ('q', '')]

Enter first list length: 3
Enter second list length: 5
a
b
c
['a', 'b', 'c']
x
y
z
r
s
['x', 'y', 'z', 'r', 's']
[('a', 'x'), ('b', 'y'), ('c', 'z'), ('', 'r'), ('', 's')]
```

2) Find Element from list:

Program->

```
class FindEle:
    def init(self):
        lenn = int(input("enter the lenght: "))
        a = []
        output = []
        for _ in range(0, lenn):
            inp = tuple(input().split(" "))
            a.append(inp)
        key = input("enter the key: ")
        for i in a:
            if (key in i):
                ans = i
                output.append(ans)
        print(output)
FindEle.init(0)
```

Input/Output:

```
enter the lenght: 5
3,5
2,a
b,4
a,q
5,15
enter the key: a
[('2', 'a'), ('a', 'q')]
enter the lenght: 5
```

3,5

2,a

b,4

a,q

5,15

enter the key: a

[('3', '5'), ('5', '15')]

3) Remove duplicate Element:

Program->

```
class duplicateRemove:
    def init(self):
        lenn = int(input("enter the length: "))
        a = []
        for _ in range(0, lenn):
            inpt = tuple(input().split(" "))
            a.append(inpt)
        a = set(a)
        a = list(a)
        print(a)
duplicateRemove.init(0)
```

Input/Output:

enter the length: 5
1,2
4,7
6,8
6,8
1,2
[('4,7',), ('1,2',), ('6,8',)]

enter the length: 5
'a','v'
'x','z'
'b','g'
'a','v'
'p','q'
[("'b','g'",), ("'p','q'",), ("'x','z'",), ("'a','v'",)]