 # Write a Python program to swap two elements in a list

```
def swapPositions(list, pos1, pos2):
    list[pos1], list[pos2] = list[pos2], list[pos1]
    return list

List = [10, 20, 30, 40]
pos1, pos2  = 1, 3

print(swapPositions(List, pos1-1, pos2-1))
```

 # Write a Python program for Reversing a List.

```
list = [10, 20, 30, 40]
list.reverse()
print('Reversing list is:',list)
```

 # Write a Python program to Multiply all numbers in the list.

```
list = [10, 10, 10, 10]
print(list[0]*list[1]*list[2]*list[3])
```

 # Write a Python program to interchange first and last elements in a list

```
def swapList(list):
```

```
    list[0], list[-1] = list[-1], list[0]
    return list

list = [10, 20, 30, 40, 50]
print(swapList(list))
```

 # Write a Python program to find largest number in a list.

```
list = [19, 10, 50, 46, 6]
print("Largest number of the list is:", max(list))
```

 # Write a Python program to find the sum of all items in a dictionary.

```
dict = {'a':100,'b':100,'c':100}
print(sum(dict.values()))
```

 # Write a Python program for Merging two Dictionaries.

```
d1 = {'a': 100, 'b': 200}
d2 = {'x': 300, 'y': 400}
d = d1.copy()
d.update(d2)
print(d)
```

 # Write a Python script to sort (ascending and descending) a dictionary by value.

```
import operator
d = {1: 2, 3: 4, 4: 3, 2: 1, 0: 0}
print('Original dictionary : ',d)
sorted_d = sorted(d.items(), key=operator.itemgetter(0))
print('Dictionary in ascending order by value : ',sorted_d)
sorted_d = sorted(d.items(), key=operator.itemgetter(0),reverse=True)
print('Dictionary in descending order by value : ',sorted_d)
```

 # Write a Python script to check whether a given key already exists in a dictionary.

```
d = {1: 10, 2: 20, 3: 30, 4: 40, 5: 50, 6: 60}
def is_key_present(x):
  if x in d:
     print('Key is present in the dictionary')
  else:
     print('Key is not present in the dictionary')
is_key_present(5)
is_key_present(8)
```

 # Write a Python program to remove a key from a dictionary.

```
myDict = {'a':1,'b':2,'c':3,'d':4}
print(myDict)
```

```
if 'a' in myDict:
   del myDict['a']
print(myDict)
```

 # Write a Python program to create a tuple with different data types.

```
tuple = ("tuple", False, 4.2, 1)
print(tuple)
```

 # Write a Python program to convert a tuple to a string.

```
tuple = ('c', 'd', 'a', 'c', 'm', 'u', 'm', 'b', 'a', 'i')
str =  ''.join(tuple)
print(str)
```

 # Write a Python program to find the repeated items of a tuple.

```
#create a tuple
tuple = 2, 4, 5, 6, 2, 3, 4, 4, 7
print(tuple)
count = tuple.count(2)
print(count)
```

 # Write a Python program to convert a list of characters into a string.

```
s = ['c', 'd', 'a', 'c']

str1 = ''.join(s)

print(str1)
```

 # Write a Python program to append a list to the second list.

```
list1 = [1, 2, 3, 0]

list2 = ['Rakesh', 'Suresh', 'Ramesh']

final_list = list1 + list2

print(final_list)
```