Python Program to Sort a List in Ascending Order

```
#Description:
#     This program demonstrates how to sort a list of numbers
#     using Python's built-in `sort()` method.
# ------------------------------------------

def sort_list(numbers):
    """
    Sorts a list of numbers in ascending order.

    Parameters:
        numbers (list): A list of integers or floats

    Returns:
        list: A new sorted list in ascending order
    """
    # Use the built-in sorted() function (does not change original
list)
    sorted_numbers = sorted(numbers)

    # Alternatively, use numbers.sort() to sort in-place (changes
original list)
    # numbers.sort()
    # return numbers

    return sorted_numbers

# --- Main code execution ---

# Example list
my_list = [45, 12, 78, 3, 22, 5]

print("Original List:", my_list)

# Call the function to sortb
sorted_list = sort_list(my_list)

print("Sorted List:", sorted_list)
```

```
Original List: [45, 12, 78, 3, 22, 5]
Sorted List: [3, 5, 12, 22, 45, 78]
```

Create 3 Lists and Add Them to a Main List Using Loops

```
def create_main_list(n):
    """
    Creates a main list that contains 3 sublists:
    1st sublist with i*1, 2nd with i*2, 3rd with i*3

    Parameters:
        n (int): Number of elements in each sublist

    Returns:
        list: A list containing 3 sublists
    """
    main_list = []

    list1 = []
    list2 = []
    list3 = []

    for i in range(1, n + 1):
        list1.append(i * 1)
        list2.append(i * 2)
        list3.append(i * 3)

    main_list.append(list1)
    main_list.append(list2)
    main_list.append(list3)

    return main_list

# --- Main Execution ---

num = int(input("Enter number of elements in each sublist: "))
result = create_main_list(num)

print("\nMain List with 3 sublists:")
for i, sublist in enumerate(result, start=1):
    print(f"List {i}: {sublist}")
```

```
Enter number of elements in each sublist:  2


Main List with 3 sublists:
List 1: [1, 2]
List 2: [2, 4]
List 3: [3, 6]
```