## ❖ Merge Linked List:

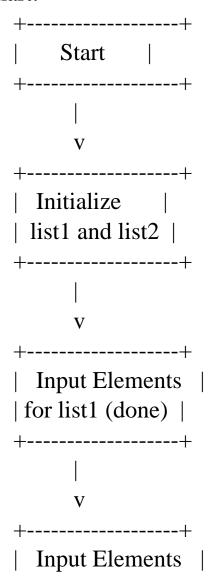
Explanation:

The program merges two sorted linked lists by comparing their nodes and linking them together in sorted order. It takes user input to populate the two lists and then uses a dummy node to facilitate the merging process. Finally, it prints the resulting merged sorted linked list.

• Time Complexity and Space Complexity:

$$\circ$$
 O(m+n) O(1)

• Flowchart:



```
| for list2 (done) |
     Initialize
     dummy Node
     Pointers p1, |
     p2 for list1 and list2 |
   | While p1 and p2 |
   are not null
   | Compare p1.data
   and p2.data
p1 \le p2 p1 > p2
```

