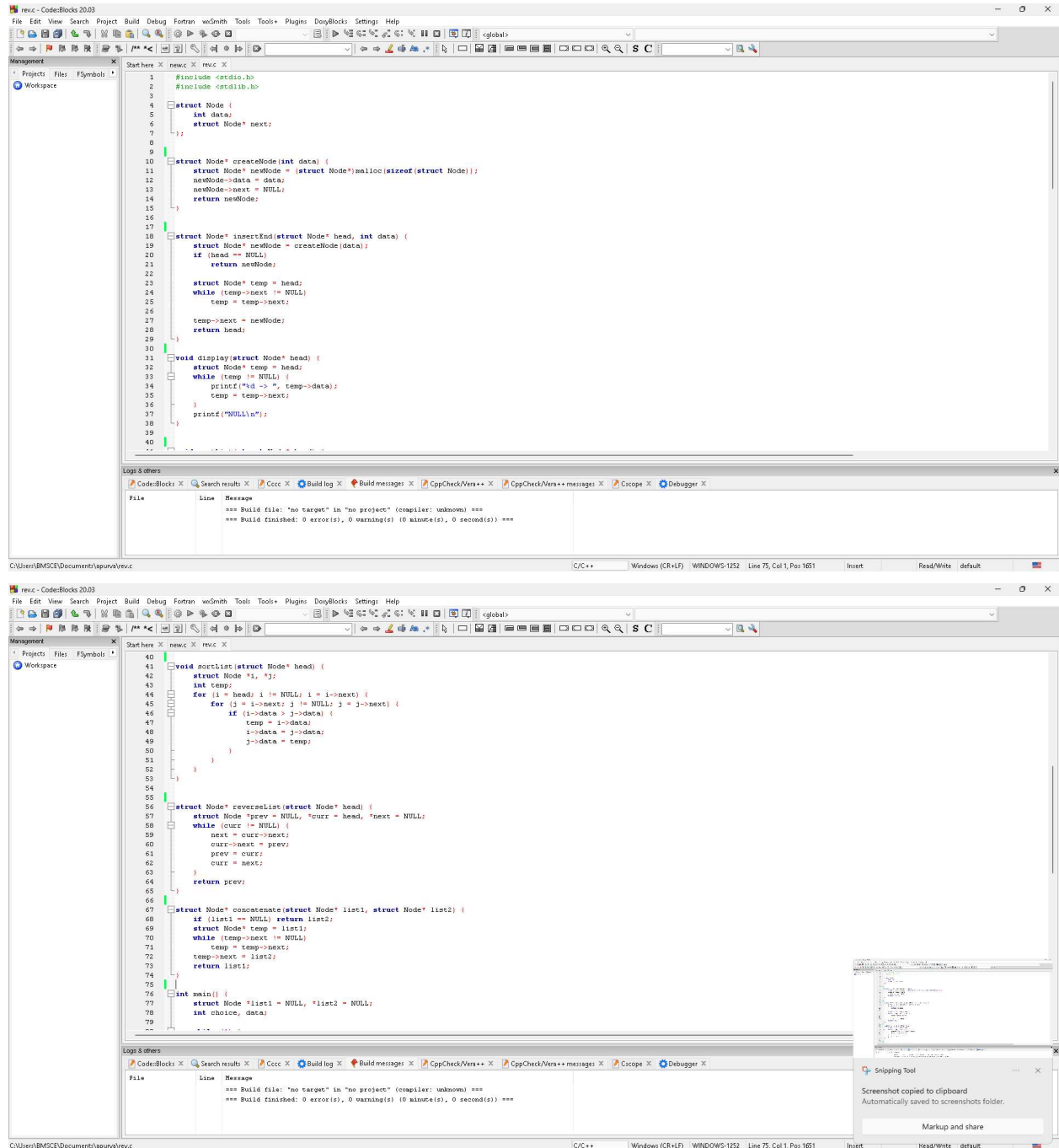
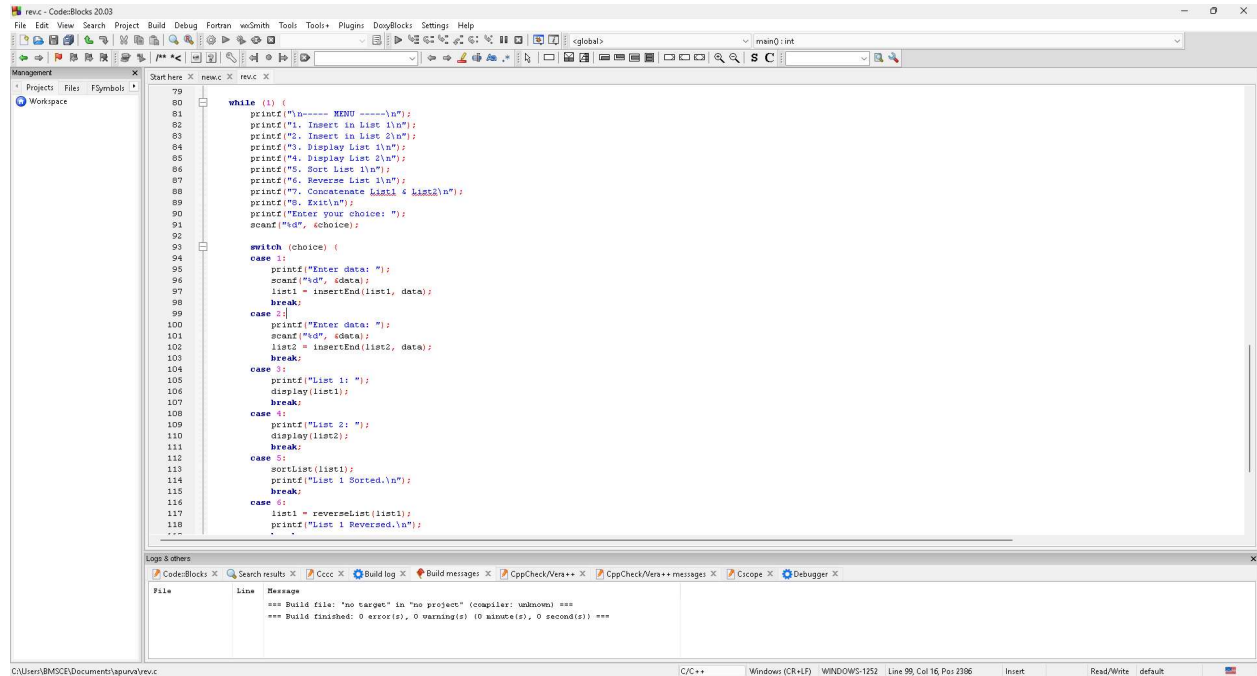


## 6. a) WAP to Implement Single Link List with following operations: Sort the linked list, Reverse the linked list, Concatenation of two linked lists.



**6. a) WAP to Implement Single Link List with following operations: Sort the linked list, Reverse the linked list, Concatenation of two linked lists.**

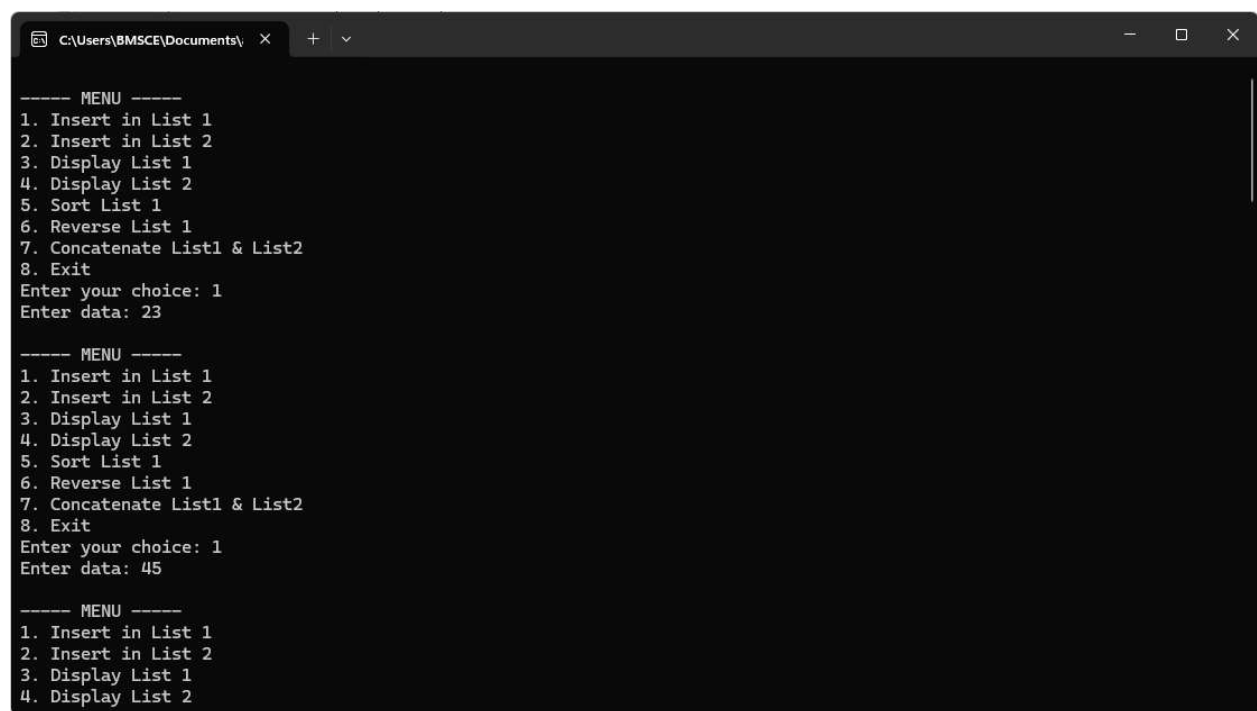


```
79 while (1) {
80     printf("\n----- MENU ----- \n");
81     printf("1. Insert in List 1\n");
82     printf("2. Insert in List 2\n");
83     printf("3. Display List 1\n");
84     printf("4. Display List 2\n");
85     printf("5. Sort List 1\n");
86     printf("6. Reverse List 1\n");
87     printf("7. Concatenate List1 & List2\n");
88     printf("8. Exit\n");
89     printf("Enter your choice: ");
90     scanf("%d", &choice);
91
92     switch (choice) {
93     case 1:
94         printf("Enter data: ");
95         scanf("%d", &data);
96         list1 = insertEnd(list1, data);
97         break;
98     case 2:
99         printf("Enter data: ");
100        scanf("%d", &data);
101        list2 = insertEnd(list2, data);
102        break;
103     case 3:
104         printf("List 1: ");
105         display(list1);
106         break;
107     case 4:
108         printf("List 2: ");
109         display(list2);
110         break;
111     case 5:
112         sortList(list1);
113         printf("List 1 Sorted.\n");
114         break;
115     case 6:
116         list1 = reverseList(list1);
117         printf("List 1 Reversed.\n");
118         break;
119     case 7:
120         concatenate(list1, list2);
121         printf("Concatenated List.\n");
122         break;
123     case 8:
124         exit(0);
125     }
126 }
```

Log & others

| File | Line | Message   |
|------|------|---|
|      |      | *** Build file: "no target" in "no project" (compiler: unknown) ***         |
|      |      | *** Build finished: 0 error(s), 0 warning(s) (0 minute(s), 0 second(s)) *** |

C:\Users\BMSCE\Documents\apun\revc C/C++ Windows (CR+LF) WINDOWS-1252 Line 99, Col 16, Pos 2306 Insert Read/Write default



```
C:\Users\BMSCE\Documents\apun\revc
----- MENU -----
1. Insert in List 1
2. Insert in List 2
3. Display List 1
4. Display List 2
5. Sort List 1
6. Reverse List 1
7. Concatenate List1 & List2
8. Exit
Enter your choice: 1
Enter data: 23

----- MENU -----
1. Insert in List 1
2. Insert in List 2
3. Display List 1
4. Display List 2
5. Sort List 1
6. Reverse List 1
7. Concatenate List1 & List2
8. Exit
Enter your choice: 1
Enter data: 45

----- MENU -----
1. Insert in List 1
2. Insert in List 2
3. Display List 1
4. Display List 2
```

6. a) WAP to Implement Single Link List with following operations: Sort the linked list, Reverse the linked list, Concatenation of two linked lists.

```
C:\Users\BMSCE\Documents\ X + v
----- MENU -----
1. Insert in List 1
2. Insert in List 2
3. Display List 1
4. Display List 2
5. Sort List 1
6. Reverse List 1
7. Concatenate List1 & List2
8. Exit
Enter your choice: 2
Enter data: 34

----- MENU -----
1. Insert in List 1
2. Insert in List 2
3. Display List 1
4. Display List 2
5. Sort List 1
6. Reverse List 1
7. Concatenate List1 & List2
8. Exit
Enter your choice: 67
Invalid choice!

----- MENU -----
1. Insert in List 1
2. Insert in List 2
3. Display List 1
4. Display List 2
```

6. a) WAP to Implement Single Link List with following operations: Sort the linked list, Reverse the linked list, Concatenation of two linked lists.

```
C:\Users\BMSCE\Documents\ X + v
----- MENU -----
1. Insert in List 1
2. Insert in List 2
3. Display List 1
4. Display List 2
5. Sort List 1
6. Reverse List 1
7. Concatenate List1 & List2
8. Exit
Enter your choice: 3
List 1: 23 -> 45 -> 98 -> NULL

----- MENU -----
1. Insert in List 1
2. Insert in List 2
3. Display List 1
4. Display List 2
5. Sort List 1
6. Reverse List 1
7. Concatenate List1 & List2
8. Exit
Enter your choice: 4
List 2: 34 -> 67 -> NULL

----- MENU -----
1. Insert in List 1
2. Insert in List 2
3. Display List 1
4. Display List 2
```

```
C:\Users\BMSCE\Documents\ X + v
----- MENU -----
1. Insert in List 1
2. Insert in List 2
3. Display List 1
4. Display List 2
5. Sort List 1
6. Reverse List 1
7. Concatenate List1 & List2
8. Exit
Enter your choice: 6
List 1 Reversed.

----- MENU -----
1. Insert in List 1
2. Insert in List 2
3. Display List 1
4. Display List 2
5. Sort List 1
6. Reverse List 1
7. Concatenate List1 & List2
8. Exit
Enter your choice: 7
After Concatenation: 98 -> 45 -> 23 -> 34 -> 67 -> NULL

----- MENU -----
1. Insert in List 1
2. Insert in List 2
3. Display List 1
4. Display List 2
```