

```
D:\1BF24CS107\lab5.exe
```

1. Create (Insert)  
2. Delete Last  
3. Delete Specific  
4. Display  
5. Exit  
Enter your choice: 1  
Enter value: 10

1. Create (Insert)  
2. Delete Last  
3. Delete Specific  
4. Display  
5. Exit  
Enter your choice: 1  
Enter value: 20

1. Create (Insert)  
2. Delete Last  
3. Delete Specific  
4. Display  
5. Exit  
Enter your choice: 1  
Enter value: 30

1. Create (Insert)  
2. Delete Last  
3. Delete Specific  
4. Display  
5. Exit  
Enter your choice: 1  
Enter value: 40

1. Create (Insert)  
2. Delete Last  
3. Delete Specific  
4. Display  
5. Exit  
Enter your choice: 1  
Enter value: 50

1. Create (Insert)  
2. Delete Last  
3. Delete Specific  
4. Display  
5. Exit  
Enter your choice: 2

1. Create (Insert)  
2. Delete Last  
3. Delete Specific



9+ 26°C Sunny ENG IN 12:00:08 10-11-2025

```
D:\1BF24CS107\lab5.exe  X + v - 0 X
```

1. Create (Insert)  
2. Delete Last  
3. Delete Specific  
4. Display  
5. Exit  
Enter your choice: 1  
Enter value: 50

1. Create (Insert)  
2. Delete Last  
3. Delete Specific  
4. Display  
5. Exit  
Enter your choice: 2

1. Create (Insert)  
2. Delete Last  
3. Delete Specific  
4. Display  
5. Exit  
Enter your choice: 4  
10 -> 20 -> 30 -> 40 -> NULL

1. Create (Insert)  
2. Delete Last  
3. Delete Specific  
4. Display  
5. Exit  
Enter your choice: 3  
Enter value to delete: 30

1. Create (Insert)  
2. Delete Last  
3. Delete Specific  
4. Display  
5. Exit  
Enter your choice: 5

Process returned 0 (0x0) execution time : 59.060 s  
Press any key to continue.

9+ 26°C Sunny ENG IN 11:59:53 10-11-2025

lab5.c - Code::Blocks 20.03

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Start here x lab5.c x

```
88
89     while (1) {
90         printf("\n1. Create (Insert)\n2. Delete Last\n3. Delete Specific\n4. Display\n5. Exit\n");
91         printf("Enter your choice: ");
92         scanf("%d", &choice);
93
94         switch (choice) {
95             case 1:
96                 printf("Enter value: ");
97                 scanf("%d", &value);
98                 create(value);
99                 break;
100
101            case 2:
102                deleteLast();
103                break;
104
105            case 3:
106                printf("Enter value to delete: ");
107                scanf("%d", &value);
108                deleteSpecific(value);
109                break;
110
111            case 4:
112                display();
113                break;
114
115            case 5:
116                exit(0);
117
118            default:
119                printf("Invalid choice.\n");
120        }
121    }
122    return 0;
123 }
124 }
```

Logs & others

Code::Blocks x Search results x Ccc x Build log x Build messages x CppCheck/Vera++ x CppCheck/Vera++ messages x Cscope x Debugger x DoxyBlocks x Fortran info x Closed files list x Thread search x

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

lab5.c - Code::Blocks 20.03

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Start here x lab5.c x

```
88
89     while (1) {
90         printf("\n1. Create (Insert)\n2. Delete Last\n3. Delete Specific\n4. Display\n5. Exit\n");
91         printf("Enter your choice: ");
92         scanf("%d", &choice);
93
94         switch (choice) {
95             case 1:
96                 printf("Enter value: ");
97                 scanf("%d", &value);
98                 create(value);
99                 break;
100
101            case 2:
102                deleteLast();
103                break;
104
105            case 3:
106                printf("Enter value to delete: ");
107                scanf("%d", &value);
108                deleteSpecific(value);
109                break;
110
111            case 4:
112                display();
113                break;
114
115            case 5:
116                exit(0);
117
118            default:
119                printf("Invalid choice.\n");
120        }
121    }
122    return 0;
123 }
124 }
```

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lab5.c - Code::Blocks 20.03

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Start here x lab5.c x

```
73 struct Node *temp = head;
74 if (temp == NULL) {
75     printf("List is empty.\n");
76     return;
77 }
78
79 while (temp != NULL) {
80     printf("%d -> ", temp->data);
81     temp = temp->next;
82 }
83 printf("NULL\n");
84
85 int main() {
86     int choice, value;
87
88     while (1) {
89         printf("\n1. Create (Insert)\n2. Delete Last\n3. Delete Specific\n4. Display\n5. Exit\n");
90         printf("Enter your choice: ");
91         scanf("%d", &choice);
92
93         switch (choice) {
94             case 1:
95                 printf("Enter value: ");
96                 scanf("%d", &value);
97                 create(value);
98                 break;
99
100            case 2:
101                deleteLast();
102                break;
103
104            case 3:
105                printf("Enter value to delete: ");
106                scanf("%d", &value);
107                deleteSpecific(value);
108                break;
109        }
110    }
111 }
```

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lab5.c - Code::Blocks 20.03

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```
37
38     struct Node *temp = head;
39     while (temp->next->next != NULL)
40         temp = temp->next;
41
42     free(temp->next);
43     temp->next = NULL;
44 }
45
46 void deleteSpecific(int key) {
47     if (head == NULL) {
48         printf("List is empty.\n");
49         return;
50     }
51
52     if (head->data == key) {
53         struct Node *temp = head;
54         head = head->next;
55         free(temp);
56         return;
57     }
58
59     struct Node *curr = head;
60     while (curr->next != NULL && curr->next->data != key)
61         curr = curr->next;
62
63     if (curr->next == NULL) {
64         printf("Element not found.\n");
65     } else {
66         struct Node *temp = curr->next;
67         curr->next = temp->next;
68         free(temp);
69     }
70 }
71
72 void display() {
73     struct Node *temp = head;
```

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| D:\1BF24CS107\lab5.c |      | == Build file: "no target" in "no project" (compiler: unknown) ==<br>== Build finished: 0 error(s), 0 warning(s) (0 minute(s), 0 second(s)) == |



lab5.c - Code::Blocks 20.03

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Start here x lab5.c x

```
1 #include <stdio.h>
2 #include <stdlib.h>
3
4 struct Node {
5     int data;
6     struct Node *next;
7 };
8
9 struct Node *head = NULL;
10
11 void create(int value) {
12     struct Node *newNode = (struct Node *)malloc(sizeof(struct Node));
13     newNode->data = value;
14     newNode->next = NULL;
15
16     if (head == NULL) {
17         head = newNode;
18     } else {
19         struct Node *temp = head;
20         while (temp->next != NULL)
21             temp = temp->next;
22         temp->next = newNode;
23     }
24 }
25
26 void deleteLast() {
27     if (head == NULL) {
28         printf("List is empty.\n");
29         return;
30     }
31
32     if (head->next == NULL) {
33         free(head);
34         head = NULL;
35         return;
36     }
37 }
```

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