```
#include <stdio.h>
   #include <stdlib.h>
 2
 3
   struct node {
 4
 5
        int data;
        struct node *next;
 6
 7
    };
 8
9
    void insert(struct node **head, int new_data) {
        struct node *new_node = (struct node *)malloc(sizeof(struct node));
10
11
        new_node->data = new_data;
12
        new node->next = *head;
13
        *head = new_node;
14
15
    void delete(struct node **head, int key) {
16
        struct node *temp = *head, *prev;
17
18
        if (temp != NULL && temp->data == key) {
19
            *head = temp->next;
20
            free(temp);
21
22
            return;
23
        }
24
25
        while (temp != NULL && temp->data != key) {
26
            prev = temp;
27
            temp = temp->next;
28
        }
29
30
        if (temp == NULL) {
31
            printf("Key not found\n");
32
            return;
33
34
35
        prev->next = temp->next;
36
        free(temp);
37
    }
38
39
    void display(struct node *head) {
        struct node *temp = head;
40
41
42
        while (temp != NULL) {
            printf("%d ", temp->data);
43
            temp = temp->next;
44
45
46
    }
47
    int main() {
48
49
        struct node *list1 = NULL;
50
        struct node *list2 = NULL;
51
52
        insert(&list1, 3);
53
        insert(&list1, 1);
54
        insert(&list1, 7);
55
        insert(&list1, 2);
56
        printf("Linked list 1: ");
57
```

```
58
        display(list1);
59
60
        delete(&list1, 1);
61
        printf("\nLinked list 1 after deletion: ");
62
        display(list1);
63
64
65
        insert(&list2, 5);
        insert(&list2, 9);
66
        insert(&list2, 4);
67
68
69
        printf("\nLinked list 2: ");
70
        display(list2);
71
72
        delete(&list2, 9);
73
74
        printf("\nLinked list 2 after deletion: ");
75
        display(list2);
76
77
        return 0;
78
    }
79
80
   /*OUTPUT
81
   PS S:\WorkSpace\CollegeWork\DataStructure> gcc .\singly-linked-list-2.c
82
83
   PS S:\WorkSpace\CollegeWork\DataStructure> ./a
   Linked list 1: 2 7 1 3
84
85
   Linked list 1 after deletion: 2 7 3
86
   Linked list 2: 4 9 5
   Linked list 2 after deletion: 4 5
87
88 PS S:\WorkSpace\CollegeWork\DataStructure>
89 */
```