```
1 #include <stdio.h>
 2 #include <stdlib.h>
   struct node
 4
5 □{
 6
         int data;
         struct node *next;
   L};
 8
 9
10 struct node *head= NULL;
12 void create()
13 □{
14
         int ele;
15
         struct node *newnode, *temp;
         newnode =(struct node *) malloc (sizeof(struct node));
16
         printf("Enter data to be inserted: ");
17
         scanf("%d",&ele);
newnode -> data = ele;
18
19
20
         if(head == NULL)
21 卓
22
             newnode -> next = NULL;
23
             head = newnode;
24
         }
25
         else
26 白
         {
27
             temp = head;
28
             while (temp -> next != NULL)
29
30
                 temp = temp ->next;
31
32
             temp -> next = newnode;
33
             newnode -> next = NULL;
34
   L}
35
36 void delfunct()
37
   ₽{
38
         int pos,count=1,trav=1;
         struct node *temp;
39
40
         temp = head;
41
         if (head == NULL)
42 白
                printf("There are no elements in the list!\n");
43
```

```
44
45
46
47
48
49
50
                    return;
             {
                  while (temp -> next != NULL)
                       temp = temp ->next;
 51
52
                      count++;
                 printf("There are %d elements in the list!\n",count);
 53
 54
 55
            printf("Which element do you want to delete?: ");
            scanf("%d",&pos);
temp = head;
if(pos == count)
56
57
58
60
61
62
63
64
65
66
67
70
71
72
73
74
75
76
77
78
78
80
                 if(head->next == NULL)
  head = NULL;
                  else
                       while ((temp->next) ->next != NULL)
                           temp = temp -> next;
                      temp -> next = NULL;
                 return;
             temp = head;
            while (temp->next != NULL)
                  if(trav == pos-1)
                      temp->next = (temp->next)->next;
                      return;
                 temp = temp->next;
 81
                 trav++;
 82
            printf("Position not found!\n");
85 void display()
86 ⊟{
```

```
struct node *temp = NULL;
  88
              temp = head;
  89
              if(temp == NULL)
  90
                   printf("No elements in list!\n");
  91
  92
                   while (temp != NULL)
  93
  94
                        printf("%d\t",temp -> data);
  95
                        temp = temp -> next;
  96
  97
                   printf("\n");
       L }
  98
 99
100
        void delfirst()
101 □{
102
              if (head == NULL)
103
              {
104
                   printf("The list is empty!\n");
105
                   return;
106
107
              else if(head->next == NULL)
108
                 head = NULL;
109
110
                  head = head->next;
111
       L3
112
113
       void dellast()
114 □{
115
              struct node *temp;
116
              temp = head;
117
              if (head == NULL)
118
119
                   printf("The list is empty!\n");
120
                   return;
121
              else if(head->next == NULL)
122
123
                  head = NULL;
124
              else
125
              {
126
                   while((temp->next) ->next != NULL)
127
128
                         temp = temp -> next;
129
            printf("---Linked List--
scanf("%d",&choice);
switch(choice)
                              -\nEnter choice:\n1.Insert to end\n2.delete at the beginning\n3.delete at the end\n4.Delete a position\n5.Display\n6.exit\n");
               case l:create();
break;
case 2:delfirst();
break;
case 3:dellast();
break;
case 4:delfunct();
break;
case 5:display();
break;
case 6:exit(0);
break;
default:exit(0);
```