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1  #include <stdio.h>
2  #include <stdlib.h>
3
4  struct node
5  {
6      int data;
7      struct node *next;
8  };
9
10 struct node *head= NULL;
11
12 void create()
13 {
14     int ele;
15     struct node *newnode,*temp;
16     newnode =(struct node *) malloc (sizeof(struct node));
17     printf("Enter data to be inserted: ");
18     scanf("%d",&ele);
19     newnode -> data = ele;
20     if(head == NULL)
21     {
22         newnode -> next = NULL;
23         head = newnode;
24     }
25     else
26     {
27         temp = head;
28         while(temp -> next != NULL)
29         {
30             temp = temp ->next;
31         }
32         temp -> next = newnode;
33         newnode -> next = NULL;
34     }
35 }
36 void delfunct()
37 {
38     struct node *temp,*del = NULL;
39     int ele;
40
41     if(head == NULL)
42     {

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43     printf("List is empty!!!\n");
44     return;
45 }
46 temp = head;
47 printf("Enter value to be removed: ");
48 scanf("%d",&ele);
49 if(head -> data == ele)
50 {
51     del = head;
52     head = head->next;
53 }
54 while(temp -> next != NULL)
55 {
56     if(temp -> next -> data == ele)
57     {
58         del = temp -> next;
59         if(del -> next == NULL)
60             temp -> next = NULL;
61         else
62             temp -> next = del -> next;
63     }
64     else
65         temp = temp -> next;
66 }
67 if(del == NULL)
68     printf("Element has not been found!\n");
69 }
70 void display()
71 {
72     struct node *temp = NULL;
73     temp = head;
74     if(temp == NULL)
75         printf("No elements in list!\n");
76     else
77         while(temp != NULL)
78         {
79             printf("%d\t",temp -> data);
80             temp = temp -> next;
81         }
82     printf("\n");
83 }
84 void insertbeg()

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85 {
86     struct node *newnode;
87     int ele;
88     printf("Enter element to be added: ");
89     scanf("%d",&ele);
90     newnode=(struct node*)malloc(sizeof(struct node));
91     newnode->data = ele;
92     newnode->next = head;
93     head = newnode;
94 }
95
96 int main(int argc,char** argv)
97 {
98     int choice;
99     while(choice != 5)
100     {
101         printf("---Linked List---\nEnter choice:\n1.Insert to end\n2.delete\n3.Display\n4.Insert to beginning\n5.Exit\n");
102         scanf("%d",&choice);
103         switch(choice)
104         {
105             case 1:create();
106                 break;
107             case 2:delfunct();
108                 break;
109             case 3:display();
110                 break;
111             case 4:insertbeg();
112                 break;
113             case 5:exit(0);
114             default:exit(0);
115         }
116     }
117     return 0;
118 }

```