

main.c

```
1  #include <stdio.h>
2  #include <stdlib.h>
3  void create();
4  void display();
5  void delfun(int);
6  struct node
7  {
8      int data;
9      struct node *next;
10 };
11 struct node *head=NULL;
12 int main()
13 {
14     int choice,ele;
15     char ch;
16     int n=1;
17     do
18     {
19
20         printf("\n1. Create \n2. Display \n3. Delete ");
21         printf("\nEnter your choice : ");
22         scanf("%d",&choice);
23         switch(choice)
24         {
25             case 1: create(); break;
26             case 2: display();break;
27             case 3: printf("Enter the element to be deleted\n");
28                     scanf("%d",&ele);
29                     delfun(ele); break;
30
31         }
32     }while(n==1);
```

```

34 void create()
35 {
36     struct node *newnode,*temp;
37     int item;
38     newnode =(struct node *) malloc (sizeof(struct node));
39     printf("Enter the data : ");
40     scanf("%d",&item);
41     newnode->data=item;
42     if (head==NULL)
43     {
44         newnode->next=NULL;
45         head=newnode;
46         printf("Node created\n");
47     }
48     else
49     {
50         temp=head;
51         while(temp->next!=NULL)
52         {
53             temp=temp->next;
54         }
55         temp->next=newnode;
56         newnode->next=NULL;
57         printf("Node created\n");
58     }
59 }
60
61 void display()
62 {
63     struct node *ptr=NULL;
64     ptr=head;
65

```


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```
66     if(ptr==NULL)
67     {
68         printf("Nothing to print\n");
69     }
70     else
71     {
72         while(ptr!=NULL)
73         {
74             printf("%d ",ptr->data);
75             ptr=ptr->next;
76         }
77     }
78 }
79
80
81 void delfun(int ele)
82 {
83     struct node *temp,*del=NULL;
84
85     if (head == NULL)
86     {
87         printf("Empty List. Can't delete\n");return;
88     }
89     temp=head;
90     if(head->data==ele)
91     {
92         head=head->next;
93         return;
94     }
95     while (temp->next!=NULL)
96     {
97         if(temp->next->data==ele)
```



```

if (head == NULL)
{
    printf("Empty List. Can't delete\n");return;
}
temp=head;
if(head->data==ele)
{
    head=head->next;
    return;
}
while (temp->next!=NULL)
{
    if(temp->next->data==ele)
    {
        I
        del=temp->next;
        if(del->next==NULL)
            temp->next=NULL;
        else
            temp->next=del->next;
    }

    else
        temp=temp->next;
}
if(del==NULL)
{
    printf("Element not found in the list\n");return;
}
}

```