```c
1    #include <stdio.h>
2    #include <stdlib.h>
3    typedef struct list{
4        int data;
5        struct list *link;
6    }eqn;
7    eqn *head,*new,*pre,*cur,*disp,*temp;
8    int a,posn=0,n,i,item;
9    void addition(){
10       new=(eqn*)malloc(sizeof(eqn));
11       new->link=NULL;
12       puts("\nEnter the data");
13       scanf("%d",&new->data);
14       if(head==NULL)
15           head=new;
16       else{
17           puts("Enter the position u wnt 2 enter:");
18           scanf("%d",&n);
19           cur=head;
20           for(i=1;i<n;i++){
21               pre=cur;
22               cur=cur->link;
23               }
24           if(n==1)
25               head=new;
26           else
27               pre->link=new;
28           new->link=cur;
29    }
30    }
31    void deletion(){
32       if (head==NULL){
33           puts("no data to delete");
34           return;
35           }
36       printf("input the element to delete");
37       scanf("%d",&item);
38       pre=cur=head;
39       while(cur->link!=NULL&&cur->data!=item)
40           { pre=cur;
41             cur=cur->link;}
42       if(cur==NULL){
43           printf("no data to delete");
44           return; }
45       else
46           {
47           if(cur==head)
48               head=head->link;
49           else
50               pre->link=cur->link;
51           }
52       free(cur);
53    }
54    void display(){
55       for(disp=head;disp!=NULL;disp=disp->link){
56           printf("%d -> ",disp->data);
57       }
58    }
59    void main(){
60       int x=1;
61       while(x){
62           puts("case1:additem\ncase2:delete\ncase3:display");
63           scanf("%d",&a);
64           switch(a){
65               case 1:addition();break;
66               case 2:deletion();break;
```

```c
67                case 3:display();break;
68                default:puts("wrong input");break;
69                }
70      puts("\nDo u wnt to cntinue: [1-yes][0-no]");
71      scanf("%d",&x);
72      }
73  }
```