```c
/* create element in link list and display the link list's elements*/
#include <stdio.h>
#include <conio.h>
#include <malloc.h>

int main()
{
    struct node
    {
        int num;
        struct node *next;
    }*start = NULL;

    typedef struct node NODE;
    NODE *p, *q, *previous = NULL, *temp;
    int count = 0;
    char choice;
    //clrscr();
    do
    {
        p= (NODE *) malloc (sizeof (NODE));
        printf("enter the data item\n");
        scanf("%d", &p -> num);
        if(start == NULL)
        {       //for node to be inserted at last
            start = p;
            start->next= NULL;
            previous = start;
            /* for node to be inserted in the beigning
            p->next = start;
            start = p; */
        }
        else
        {       //for node to be inserted at last
            previous->next = p;
            p->next = NULL;
            previous = p;
            /* for node to be inserted in the begining
            q = start;
            p->next = q;
            start = p;
            */

        }
        printf("\nDo you want to continue (type y or n)?\n");
        scanf("%s", &choice);
    }while(choice=='y'||choice=='Y');

    int delets = 0;
    char del;
    do
    {
        if(delets){
        /*    //delets first element. */
            if(start != NULL){
                temp = start;
                start = temp->next;
                printf("\ndeleted node is %d ",temp->num);
                count = 0;
                free(temp);
            }
               //   */
        /*     //delets last node
            temp = start;
            if(start == NULL)
                printf("\nlist is empty");
```

```
            else if(temp->next == NULL) //only one node in the list
            {
                printf("\ndeleted item is %d", temp->num);
                free(temp);
                start = NULL;
                count = 0;

            }
            else
            {
                while( temp->next->next != NULL)
                    temp=temp->next;
                printf("the deleted node is %d\n", temp->next->num);
                free(temp->next);
                temp->next = NULL;
                count = 0;
            }
             */
        }
        temp = start;
        if(temp != NULL)
            printf("status of the linked list is \n");
        while(temp != NULL)
        {
            printf(" %d ", temp->num);
            count ++;
            temp = temp->next;
        }
        printf("\nno of nodes in the list = %d \n", count);

        printf("\n Do you want to delete node? type y or n\n");
        scanf("%s", &del);
        delets = 1;

    }while(del=='y'|| del=='Y');
    getch();
    return 0;
}

```