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1  /* create element in link list and display the link list's elements*/
2  #include <stdio.h>
3  #include <conio.h>
4  #include <malloc.h>
5
6  int main()
7  {
8      struct node
9      {
10         int num;
11         struct node *next;
12     }*start = NULL;
13
14     typedef struct node NODE;
15     NODE *p, *q, *previous = NULL, *temp;
16     int count = 0;
17     char choice;
18     //clrscr();
19     do
20     {
21         p= (NODE *) malloc (sizeof (NODE));
22         printf("enter the data item\n");
23         scanf("%d", &p -> num);
24         if(start == NULL)
25         {
26             //for node to be inserted at last
27             /*start = p;
28             start->next= NULL;
29             previous = start;
30             */
31             //for node to be inserted in the beigning
32             p->next = start;
33             start = p;
34         }
35         else
36         {
37             //for node to be inserted at last
38             /*previous->next = p;
39             p->next = NULL;
40             previous = p;*/
41             //for node to be inserted in the beginning
42             q = start;
43             p->next = q;
44             start = p;
45         }
46         printf("\nDo you want to continue (type y or n)?\n");
47         scanf("%s", &choice);
48     }while(choice=='y' || choice=='Y');
49
50     int delets = 0;
51     char del;
52     do
53     {
54         if(delets){
55             /* //delets first element. */
56             if(start != NULL){
57                 temp = start;
58                 start = temp->next;
59                 printf("\ndeleted node is %d ",temp->num);
60                 count = 0;
61                 free(temp);
62             }
63             // */
64             /* //delets last node
65             temp = start;
66             if(start == NULL)

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67         printf("\nlist is empty");
68     else if(temp->next == NULL) //only one node in the list
69     {
70         printf("\ndeleted item is %d", temp->num);
71         free(temp);
72         start = NULL;
73         count = 0;
74     }
75     else
76     {
77         while( temp->next->next != NULL)
78             temp=temp->next;
79         printf("the deleted node is %d\n", temp->next->num);
80         free(temp->next);
81         temp->next = NULL;
82         count = 0;
83     }
84     */
85 }
86 temp = start;
87 if(temp != NULL)
88     printf("status of the linked list is \n");
89 while(temp != NULL)
90 {
91     printf(" %d ", temp->num);
92     count ++;
93     temp = temp->next;
94 }
95 printf("\nno of nodes in the list = %d \n", count);
96
97 printf("\n Do you want to delete node? type y or n\n");
98 scanf("%s", &del);
99 delets = 1;
100
101 }while(del=='y' || del=='Y');
102 getch();
103 return 0;
104 }
105 }
106

```