```
Marchere Inolly QLE.C .....
    1 #include<stdio.h>
    2
       #include<stdlib.h>
    3
        typedef struct node
    5
           int data;
    6
           struct node *next;
    7
       l}node;
    8
    9 void insert();
   10
      void reverse();
   11 void disp();
   12
        struct node *start=NULL;
 13
  13
    void main()
 14
 15 ₽{
 16
      int ch:
 17
      while(1)
 18 E
      printf("\n----Options Are----");
 19
```

```
printf("\n1-Insertion");
printf("\n2-Revers");
20
21
       printf("\n3-Display");
printf("\n4-Exit");
22
23
        printf("\nEnter your choice: ");
24
        scanf("%d", &ch);
25
26
        switch (ch)
27
28
          case 1: insert();
29
                    break;
          case 2: reverse();
30
31
                    break;
32
          case 3: disp();
33
                    break;
34
          case 4: exit(0);
          default: printf("\n Wrong Choice");
35
36
37
38
39
```

```
39
40
    void insert()
41 □{
42
        node *ptr;
43
        ptr = (node*)malloc(sizeof(node));
44
        printf("\nEnter the value: ");
45
        scanf ("%d", &ptr->data);
46
        ptr->next=NULL;
47
        if (start==NULL)
48
          start=ptr;
49
        else
50 🖨
51
           node *temp;
52
           temp = start;
53
           while(temp->next!=NULL)
54
           temp = temp->next;
55
           temp->next=ptr;
56
57
58
```

```
58
59 void reverse()
61
         struct node *temp1, *temp2;
62
         temp1=start;
63
         start=start->next;
64
         temp1->next=NULL;
65
         temp2=start;
66
         while(start!=NULL)
67 🖨
68
69
             start=start->next;
70
             temp2->next=temp1;
71
             temp1=temp2;
72
             temp2=start;
73
74
         start=temp1;
75 <sup>[</sup> }
76
ΟU
81
82 void disp()
84
      struct node *temp;
85
      temp = start;
86
       if(temp==NULL)
87
         printf("\nList is empty");
88
       else
89   {
90
         printf("\nYou have entered following data");
91
         while(temp)
92   {
93
         printf(" %d ",temp->data);
94
         temp=temp->next;
95
96 - }
97
```