```
1 //Linked List 5
2 #include <stdio
  2 #include <stdio.h>
3 #include <stdlib.h>
 5 pstruct node{
 6
7
8 };
           int data;
           struct node *next;
  9 = void insertfirst(struct node **headptr){
           struct node *newnode;
           int value;
printf("Enter value: ");
11
12
13
14
15
16
17
18
           remove variety variety ;
rearrange ("%d", &value);
newnode = (struct node*)malloc(sizeof(struct node));
           newnode->data = value;
newnode->next = NULL;
           if(*headptr == NULL)
(*headptr) = newnode;
           newnode = (struct node*)malloc(sizeof(struct node));
 33
34
35
36
37
38
                 (*headptr) = newnode;
           else{
                temp = (*headptr);
                while (temp != NULL) {
                    count++;
 39
40
                     temp = temp->next;
 41
                printf("There are %d elements in the list.Enter the position where you want to insert the value: ",count);
                scanf("%d", &pos);
 43
                if(pos > (count+1)){
                   printf("no such position\n");
```

```
return;
45
46
 47
              if (pos == count+1) {
                  temp = (*headptr);
 48
                  while(temp->next != NULL)
 49
 50
                     temp = temp->next;
 51
                  temp->next = newnode;
 52
53
              else{
 54
                  temp = (*headptr);
                  while (temp->next != NULL) {
 56
                      if(curros == (pos-1)){
 57
                          newnode->next = temp->next;
 58
                          temp->next = newnode;
 59
                          break;
 60
 61
                       currpos++;
 62
                       temp = temp->next;
 63
 64
 65
     1
 66
    pvoid insertlast(struct node **headptr) {
 67
 68
          struct node *newnode, *temp;
          int value;
 69
          printf("Enter value: ");
 71
          scanf("%d", &value);
 72
73
          newnode = (struct node*)malloc(sizeof(struct node));
          newnode->data = value;
 74
          newnode->next = NULL;
          temp = (*headptr);
 76
          if(*headptr == NULL)
 77
              (*headptr) = newnode;
 78
          else{
 79
              while (temp->next != NULL)
                  temp = temp->next;
 81
              temp->next = newnode;
 82
     L}
 83
 84
    □void deletelast(struct node **headptr){
 85
          struct node *temp;
 86
          temp = (*headptr);
 87
          if((*headptr) == NULL)
              printf("The list is empty\n");
 88
```

```
else if((*headptr)->next == NULL)
90
              (*headptr) = NULL;
91 🛱
              temp = *headptr;
93
              while ((temp->next) ->next != NULL)
                 temp = temp->next;
              temp->next = NULL;
96
98 void display(struct node *temp) (
99 if(temp == NULL) (
             printf("The list is empty\n");
              return;
103 p
              while (temp != NULL) {
105
                 printf("%d\t",temp->data);
106
                  temp = temp->next;
108
              printf("\n");
109
110
112 □ int main(int argc,char **argv){
113
          int choice;
114
          struct node *head = NULL;
          while (choice != 6) {
116
             printf("Enter choice 1)insertfirst 2)insertpos 3)insertlast 4)deletelast 5)display 6)exit : ");
              scanf ("%d", &choice);
118
              switch(choice){
119
                 case 1:insertfirst(&head);break;
                  case 2:insertpos(&head);break;
                  case 3:insertlast(&head);break;
                  case 4:deletelast(&head);break;
123
                  case 5:display(head);break;
124
                  case 6:
                  default:exit(0);
126
128
          return 0;
129 4
```