```
1
     //stack
2
3
     #include<stdio.h>
     #include<stdlib.h>
4
6
    struct node
7 □{
8
         int data;
9
         struct node *next;
    1);
11
   void push(struct node **headptr,int value)
13 ₽{
14
         struct node *newnode, *temp;
15
         newnode = (struct node*)malloc(sizeof(struct node));
16
         newnode->data = value;
17
         newnode->next = NULL;
18
         temp = *headptr;
19
         if(temp == NULL)
20 🖨
21
             *headptr = newnode;
23
         else
24
         {
25
             while(temp->next != NULL)
26
                temp = temp->next;
27
             temp->next = newnode;
28
    1
29
30
   void pop(struct node **headptr)
31 ₽{
32
         struct node *temp;
33
         temp = *headptr;
34
         if(temp == NULL)
36
             printf("The list is Empty!!!\n");
             return;
37
38
39
         else if(temp->next == NULL)
40 白
41
             *headptr = NULL;
42
             printf("Last Element has been Deleted\n");
43
             return;
44
```

```
45
          else
46
          {
47
              while((temp->next)->next != NULL)
48
                  temp = temp->next;
49
              temp->next = NULL;
50
              printf("Top Element has been Deleted\n");
51
52 -}
53 void display(struct node *temp)
54 ₽{
55
          if(temp == NULL)
56
57
              printf("The list is Empty!!!\n");
58
              return;
59
60
          else
61
          {
62
                  while (temp!=NULL)
63
              {
                  printf("%d\t",temp->data);
64
65
                  temp = temp->next;
66
67
              printf("\n");
68
     L3
69
70
71 in
72 P{
     int main(int argc, char **argv)
73
          struct node *head = NULL;
74
          int choice, ele;
          while (choice != 4)
76
77
              printf("Enter choice 1) Push 2) Pop 3) Display 4) Exit: ");
78
              scanf("%d", &choice);
79
              switch(choice)
80
                  case 1:printf("Enter value:");scanf("%d", &ele);push(&head,ele);break;
81
82
                  case 2:pop(&head);break;
                  case 3:display(head);break;
84
                  case 4:exit(0);
                  default:exit(0);
86
87
88
          return 0;
```