

```

1  #include <stdio.h>
2  #include <stdlib.h>
3
4  #define MAX 5
5
6  int top = -1;
7  int stack[MAX];
8
9  void push(int stack[])
10 {
11     int element;
12     if(top == MAX-1)
13         printf("Stack is full!");
14     else
15     {
16         top++;
17         printf("Enter element: ");
18         scanf("%d",&element);
19         stack[top] = element;
20     }
21 }
22
23 void pop(int stack[])
24 {
25     int del;
26     if(top == -1)
27         printf("Stack is empty!!!\n");
28     else
29     {
30         del = stack[top];
31         top--;
32         printf("Element deleted is: %d\n",del);
33     }
34 }
35
36 void display(int stack[])
37 {
38     if(top == -1)
39         printf("stack is empty!\n");
40     else
41         for(int i=top;i>=0;i--)
42             printf("%d\t",stack[i]);
43
44     printf("\n");
45 }
46
47 int main(int argc,char** argv)
48 {
49     int choice;
50     while(choice != 4)
51     {
52         printf("Enter choice:\n1.Insert\n2.Delete\n3.Display\n4.exit\n");
53         scanf("%d",&choice);
54         switch(choice)
55         {
56             case 1:push(stack);
57                     break;
58             case 2:pop(stack);
59                     break;
60             case 3:display(stack);
61                     break;
62             case 4:exit(0);
63             default:exit(0);
64         }
65     }
66     return 0;
67 }

```