

```
1.push
 2.push
 3.display
Enter the choice: 1
Enter the element to be inserted:34
1.push
 2.push
 3.display
Enter the choice: 1
Enter the element to be inserted:90
1.push
 2.push
 3.display
Enter the choice: 1
Enter the element to be inserted:60
1.push
 2.push
 3.display
Enter the choice: 2
Enter the element to be popped:34
Element deleted is 34
1.push
 2.push
 3.display
Enter the choice: 3
The element in the Stack are:
90
34
```

```
9  #include <stdio.h>
10 #define n 5
11 int stack[n];
12 int top = -1;
13 void push();
14 void pop();
15 void display();
16
17 void push()
18 {
19     if(top>=n){
20         printf("Stack is full, Overflow condition");
21     }
22     else
23     {
24         int x;
25         printf("Enter the element to be inserted:");
26         scanf("%d", &x);
27         top++;
28         stack[top]=x;
29     }
30 }
31
32 void pop()
33 {
34     if(top==1)
35     {
36         printf("Stack is Underflow condition:");
37     }
38     else{
39         int item;
40         printf("Enter the element to be popped:");
41         scanf("%d", &item);
42         printf("Element deleted is %d\n", item);
43         top--;
44     }
```

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42     printf("Element deleted is %d\n", item);
43     top--;
44 }
45 }
46 void display()
47 {
48     int i;
49     if(top==-1){
50         printf("Stack is empty");
51     }
52     else{
53         printf("The element in the Stack are:\n");
54         for(i=top; i>=0; i--){
55             printf("%d\n", stack[i]);
56         }
57     }
58 }
59 void main()
60 {
61     while(1){
62         int choice;
63         printf("1.push\n 2.push\n 3.display\n");
64         printf("Enter the choice");
65         scanf("%d", &choice);
66         switch(choice)
67         {
68             case 1 : push();
69                 break;
70             case 2 : pop();
71                 break;
72             case 3 : display();
73                 break;
74             default: printf("Invalid");
75         }
76     }
77 }
78

```