

main.c

```
1 #include <stdio.h>
2 #include <stdlib.h>
3 #define n 5
4 int stack[n];
5 int top=-1;
6 void push();
7 void pop();
8 void display();
9
10 void push()
11 {
12     if(top>=n)
13     {
14         printf("Stack overflow\n");
15     }
16     else
17     {
18         int x;
19         printf("Enter element:\n");
20         scanf("%d",&x);
21         top++;
22         stack[top]=x;
23     }
24 }
25 void pop()
26 {
27     if(top== -1)
28     {
29         printf("Stack underflow\n");
30     }
31     else{
32         int ele;
33         printf("Enter element\n");
34         scanf("%d",&ele);
35         printf("Element deleted is %d\n",ele);
36         top--;
37     }
```

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{ } Beautify

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Language C

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main.c

```
38 }
39 void display()
40 {
41     if(top==-1){
42         printf("Empty stack\n");
43     }
44     else{
45         printf("Elements in the stack are:\n");
46         for(int i=top;i>=0;i--)
47         {
48             printf("%d\n",stack[i]);
49         }
50         printf("Shruti Khandelia:1BM22CS274\n");
51         exit(0);
52     }
53 }
54 void main()
55 {
56     while(1)
57     {
58         int choice;
59         printf("Enter 1 for push,2 for pop,3 for display");
60         scanf("%d",&choice);
61         switch(choice){
62             case 1:
63                 push();
64                 break;
65             case 2:
66                 pop();
67                 break;
68             case 3:
69                 display();
70                 break;
71             default:
72                 printf("Invalid input");}
73     }
74 }
```


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main.c

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Run

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Language C

input

Enter 1 for push,2 for pop,3 for display1

Enter element:

2

Enter 1 for push,2 for pop,3 for display1

Enter element:

3

Enter 1 for push,2 for pop,3 for display1

Enter element:

7

Enter 1 for push,2 for pop,3 for display3

Elements in the stack are:

7

3

2

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Program finished with exit code 0

Press ENTER to exit console.