

```
Activities Text Editor Jul 17 2:58 PM
Documents Open *Megh.C Save
Megh.C
1 #include <stdio.h>
2 void Push();
3 void Pop();
4 void Peep();
5 void Display();
6 int STK[50], TOP=-1, ch, n;
7 int main()
8 {
9
10     printf("Enter size of Stack:");
11     scanf("%d", &n);
12     do
13     {
14         printf("\nMenu: \n0. Exit \n1. Add element \n2. Remove Element \n3. Peep at an element \n4. Display Stack \n");
15         printf("\nEnter Choice:");
16         scanf("%d", &ch);
17         switch(ch)
18         {
19             case 0: printf("\nExiting");
20                     break;
21             case 1: Push();
22                     break;
23             case 2: Pop();
24                     break;
25             case 3: Peep();
26                     break;
27             case 4: Display();
28                     break;
29             default: printf("\nPlease enter a valid choice");
30         }
31     } while(ch != 0);
32     return 0;
33 }
34
35 void Push()
36 {
37     if(TOP==(n-1))
38     {
39         printf("\nStack Overflow");
40     }
41     else
42     {
43         TOP++;
44         printf("\nEnter element to insert:");
45         scanf("%d", &STK[TOP]);
46     }
47 }
```

```
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Megh.C
35 void Push()
36 {
37     if(TOP==(n-1))
38     {
39         printf("\nStack Overflow");
40     }
41     else
42     {
43         TOP++;
44         printf("\nEnter element to insert:");
45         scanf("%d", &STK[TOP]);
46     }
47 }
48
49 void Pop()
50 {
51     if(TOP==0)
52     {
53         printf("\nStack Underflow");
54     }
55     else
56     {
57         printf("\nPopped Element is: %d", STK[TOP]);
58         TOP--;
59     }
60 }
61
62 void Peep()
63 {
64     int p;
65     printf("\nEnter position from the TOP that you want to peep:");
66     scanf("%d", &p);
67     if((TOP-p)<0)
68     {
69         printf("\nStack Underflow");
70     }
71     else
72     {
73         printf("\nElement is: %d", STK[TOP-p]);
74     }
75 }
76
77 void Display()
78 {
79     int i;
```

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Documents Open *Megh.C Save

```
40
41
42
43
44
45
46
47
48 void Pop()
49 {
50     if(TOP==1)
51     {
52         printf("\nStack Underflow");
53     }
54     else
55     {
56         printf("\nPopped Element is:%d",STK[TOP]);
57         TOP--;
58     }
59 }
60
61
62 void Peep()
63 {
64     int p;
65     printf("\nEnter position from the TOP that you want to peep:");
66     scanf("%d",&p);
67     if((TOP-p)<0)
68     {
69         printf("\nStack Underflow");
70     }
71     else
72     {
73         printf("\nElement is: %d", STK[TOP-p]);
74     }
75 }
76
77 void Display()
78 {
79     int i;
80     if(TOP<0)
81     {
82         printf("\nStack is Empty");
83     }
84     else
85     {
86         printf("\nStack from TOP:\n");
87         for(i=TOP;i>=0;i--)
88         {
89             printf(" %d ",STK[i]);
90         }
91     }
92 }
```

Bracket match found on line: 78 C++ Tab Width: 8 Ln 92, Col 2 INS

Activities Terminal Jul 17 2:56 PM

d|0409@noname: ~

```
Stack from TOP:
2 3 4 5

Menu:
0. Exit
1. Add element.
2. Remove Element
3. Peep at an element
4. Display Stack

Enter Choice:1
Enter element to insert:3

Menu:
0. Exit
1. Add element.
2. Remove Element
3. Peep at an element
4. Display Stack

Enter Choice:1
Stack Overflow

Menu:
0. Exit
1. Add element.
2. Remove Element
3. Peep at an element
4. Display Stack

Enter Choice:4
Stack from TOP:
3 2 3 4 5

Menu:
0. Exit
1. Add element.
2. Remove Element
3. Peep at an element
4. Display Stack

Enter Choice:1
```

```
Activities Terminal Jul 17 2:56 PM dl0409@noname: ~
1. Add element.
2. Remove Element
3. Peep at an element
4. Display Stack
Enter Choice:1
Stack Overflow
Menu:
0. Exit
1. Add element.
2. Remove Element
3. Peep at an element
4. Display Stack
Enter Choice:3
Enter position from the TOP that you want to peep:5
Stack Underflow
Menu:
0. Exit
1. Add element.
2. Remove Element
3. Peep at an element
4. Display Stack
Enter Choice:2
Popped Element is:3
Menu:
0. Exit
1. Add element.
2. Remove Element
3. Peep at an element
4. Display Stack
Enter Choice:4
Stack from TOP:
2 3 4 5
Menu:
```