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## STACK IMPLEMENTATION

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```
1. #include<stdio.h>
2. #include<stdlib.h>
3.
4. int stack[100];
5. int top=-1;
6.
7. void push();
8. void pop();
9. void peek();
10. void Display();
11.
12. int main(){
13.         int x;
14.
15.
16.         while(x!=5){
17.                 printf("\n\nWelcome To stack\n\n");
18.                 printf("\n1. Push\n");
19.                 printf("2. Pop\n");
20.                 printf("3. Peek\n");
21.                 printf("4. Display\n");
22.                 printf("5. Exit\n");
23.                 scanf("%d",&x);
24.                 printf("\n\n\n");
25.                 switch(x){
26.                         case 1:
27.                                 push();
28.                                 break;
29.                         case 2:
```

```
30.                pop();
31.                break;
32.            case 3:
33.                peek();
34.                break;
35.            case 4:
36.                Display();
37.                break;
38.            case 5:
39.                exit(0);
40.            default:
41.                printf("Enter valid choice");
42.            }
43.        }
44.        return 0;
45.    }
46.
47.    void push(){
48.        int x;
49.        printf("Enter Data ");
50.        scanf("%d",&x);
51.        top++;
52.        stack[top]=x;
53.    }
54.    void pop(){
55.        int item;
56.        if(top== -1){
57.            printf("underflow");
58.        }
59.        else{
60.            item=stack[top];
61.            top--;
62.            printf("%d deleted\n",item);
63.        }
64.    }
65.    void peek(){
66.        if(top== -1){
67.            printf("underflow");
68.        }
69.        else{
70.            printf("\n%d\n",stack[top]);
71.        }
72.    }
73.    void Display(){
74.        int i;
```

```
75.         for(i=top;i>=0;i--){  
76.             printf(" %d \n\n",stack[i]);  
77.         }  
78.     }
```

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