```c
#include <stdio.h>
#include <process.h>
#include <conio.h>
#define STACK_SIZE 5
int top = -1;
int s[10];
int item;
void push() {
    if (top == STACK_SIZE - 1) {
        printf("overflow");
        return; }
    top = top+1;
    s[top] = item; }
int pop() {
    if (top == -1) return -1;
    return s[top--]; }
void display() {
    int i;
    if (top == -1) {
        printf("empty");
        return; }
    printf("contents of stack");
    for(i=top; i>=0; i--) {
        printf("%d \n", s[i]);
    }}
```

```c
void main(){
int item_deleted, choice;
clrscr();
for(;;){
printf("\n1: push \n2:pop \n3:display \n4: exit \n");
printf(" choice ");
scanf("%d", &choice);
```

```c
switch(choice){
case 1: printf("No. to insert\n");
        scanf("%d", &item);
        push();
        break;
case 2: item_deleted = pop(); (-1)
        if(item_deleted == -1)
        printf("empty);
        else
        printf("deleted");
        break;
case 3: display();
        break;
default: exit(0);
}}
getch(); }
```