```
#include <iostream.h>
#include <conio.h>
#define size 50
f
int top = -1;
char ch = 'y';

void Display(int Stack[], int top)
{
    if (top == -1)
    {
        cout << "\nThere is no Stack, enter data first";
        return;
    }
    cout << "\nThe Stack now is :\n";
    cout << " ┌──────────────────┐\n";
    cout << "│\t" << Stack[top] << "\t│<--" << endl;
    for (int i = top - 1; i >= 0; i--)
    cout << "│\t" << Stack[i] << "\t│\n";
    cout << " └──────────────────┘";
}

int Push(int Stack[], int& top) // function to insert element
{
    int Item;
    ch = 'y';
    if (top == size - 1)
    {
        cout << "OVERFLOW!!! Aborting!!\n";
        getch();
        return -1;
    }
    while (ch == 'y' || ch == 'Y')
    {
        clrscr();
        cout << "\nEnter ITEM for insertion:";
        cin >> Item;
        top++;
        Stack[top] = Item;
        Display(Stack, top);
        cout << "\nWant to insert more elements?(y/n)...>";
        cin >> ch;
    }
    return 0;
}
```

```
 * * * * MENU * * * *
1. Push an element into array stack
2. Pop an element from the array stack
3. Show the stack
4. Exit the program
Enter your choice:>_

Do you want to delete 236?(y/n)...>y

The Stack now is :

┌──────────────────┐
│       754        │<--
│       21         │
│       234        │
│       45         │
│       12         │
└──────────────────┘

Want to delete more elements?(y/n)../_
```

```
Enter ITEM for insertion:236

The Stack now is :

┌──────────────────┐
│       236        │<--
│       754        │
│       21         │
│       234        │
│       45         │
│       12         │
└──────────────────┘

Want to insert more elements?(y/n)...>
```

```
int Pop(int Stack[], int& top) // function to pop element
{
    ch = 'y';
    int del;
    while (ch == 'y' || ch == 'Y')
    {
        clrscr();
        if (top == -1)
        {
            cout << "There is no stack, enter elements first\n";
            getch();
            return -1;
        }
        del = Stack[top];
        cout << "\nDo you want to delete " << del << "?(y/n)...>";
        cin >> ch;
        if(ch == 'y' || ch == 'Y')
            top--;
        else
            return 0;
        Display(Stack, top);
        cout << "\nWant to delete more elements?(y/n)../";
        cin >> ch;
    }
    return 0;
}

int main()
{
    int Stack[size], Item;
start:
    clrscr();
    cout << "\n * * * * MENU * * * * ";
    cout << "\n1. Push an element into array stack";
    cout << "\n2. Pop an element from the array stack";
    cout << "\n3. Show the stack";
    cout << "\n4. Exit the program";
    char opt; //to prevent keyboard buffers, char is used
    cout << "\nEnter your choice:>";
    cin >> opt;
    switch (opt)
    {
        case '1':
            Push(Stack, top);
            goto start;
        case '2':
            Pop(Stack, top);
            goto start;
        case '3':
            Display(Stack, top);
            goto start;
        case '4':
            return 0;
        default:
            cout << "\n\t Wrong choice";
    }
    getch();
    return 0;
}
```