



Stack Operations

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#include<iostream>
using namespace std;
#include<stdlib.h>

class stack {
    int sta[6], top = -1;
    public:
    void push();
    void pop();
    void display();
};

void stack::push() {
    int num;
    if (top == 5) {
        cout<<"\nStack Overflow\n";
    } else {
        cout<<"Enter the element to be inserted: ";
        cin>>num;
        sta[++top] = num;
    }
}

void stack::pop() {
    if (top == -1) {
        cout<<"Stack Underflow\n";
    } else {
        cout<<"The deleted element is: "<<sta[top--];
    }
}

void stack::display() {
    if (top == -1) {
        cout<<"The stack is empty\n";
    } else {
        for (int i = top; i >= 0; i--) {
            cout<<sta[i]<<endl;
        }
    }
}
```

```
int main() {
    stack s;
    int ch;
    do {
        cout<<"\nSTACK MENU\n1. Push\n2. Pop\n3. Display\n4. Exit\nEnter your choice: ";
        cin>>ch;

        switch (ch) {
            case 1: s.push();
                    break;
            case 2: s.pop();
                    break;
            case 3: s.display();
                    break;
            case 4: exit(0);
            default: cout<<"\nInvalid choice";
        }
    } while (ch > 0);

    return 0;
}
```