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// Stack | Push, Pop, Display

#include<iostream>
#include<stdlib.h>

using namespace std;
#define max 10
int stack[max], top = -1;

int push(int val){
    if(top >= max-1){
        cout<<"Overflow";
    }
    else
        stack[++top] = val;
}

int pop(){
    if(top <= -1)
        cout<<"Underflow";
    else{
        cout<<"Popped element"<<stack[top];
        top--;
    }
}

int display(){
    int i;
    if(top >=0){
        cout<<"Stack elements are : ";
        for(i=top; i >=0; i--){
            cout<<stack[i]<<" ";
        }
    }
    else
        cout<<"Stack is empty";
}

int main(){
    int ch, val;

    do{
        cout<<endl;
        cout<<"1 Push"<<endl;
        cout<<"2 Pop"<<endl;
        cout<<"3 Display"<<endl;
        cout<<"4 Exit"<<endl;
        cout<<"Enter your choice : ";
        cin>>ch;
        switch(ch){
            case 1:
                cout<<"Enter the value to be inserted : ";
                cin>>val;
                push(val);
                break;
            case 2:
                pop();
                break;
            case 3:
                display();
                break;
            case 4:
                exit(0);
                break;
            default:
                cout<<"Wrong Choice";
        }
    }
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    }while(ch != 4);  
    return 0;  
}
```