```
#include<stdlib.h>
#include<stdio.h>
#define MAX 5
int top = -1 , a[MAX] ;
void push() {
        if (top != MAX-1) {
                printf("Enter the element to be pushed : ");
                int item;
                scanf("%d" , &item);
                a[++top] = item;
                printf("%d successfully pushed onto the stack.\n",
item );
        else {
                printf("Stack is full.\n");
        }
}
void pop() {
        if (top == -1)
                printf("Stack is empty. No elements to pop.\n");
        else
                printf("Element %d successfully popped out of the
stack.\n" , a[top--] );
}
void display() {
        if (top != -1) {
                printf("Elements of Stack are : ");
                for(int i = 0; i \le top; i++) {
                        printf ("%d " , a[i]);
                printf("\n");
        }
        else
                printf("Stack is empty.\n");
}
void main() {
        int choice , flag = 1 ;
        printf("Enter the operation to be performed.\n");
        while(flag) {
                printf("1.Push \t 2.Pop \t 3.Display \t 4.Exit : ");
                scanf("%d" , &choice);
                switch(choice) {
                        case 1 : push();
                                 break;
                        case 2 : pop();
                                 break;
                        case 3 : display();
                                 break;
```