LAB Q Write a program to simulate the morking of stack using an ourage with the following:

(a) Push (b) Pop (c) display The perogram should point appropriate messages for stack overflows, stock under flow. # include 4staio. 4) # include Estalib.h> # deflue NJ mit stack [M]; int top=-1; noid push () point f (" luter the element to be inserted"); seary ("Ya', Ax); top++) stack [top] = xi; ropol bob () Df (top==-1)

pourt f (* stack underflow 1). inty;

y = clack [top];

top--;

puitf (" The element Detelled is "d", y) apid display () Zu objet # for ("int i-N; i)-0; i--); gentt ('%d', etack [i]); seed floor () man blow peint f (" enter your choice: \n1. Push \n2. Pop \n 3. Dieplay:");

Scart ('Yd', & chouse); Quitch (choice) case 1: push 1); bereak; lase 2: pop () becale; couse 3: display (); bounds; case 4: escit (1) default: pent f /" Fundid Infil; Enter your choice: 1. Push 3. Pesplay Cuter the elevent to be userted 2 anter your choice: 1. push 3. display 2 The elevent deleted is 2 enter your choice: 1. Push 2, Pop 3. display 3