printfl" Incialid (reduntials! Please try again!"); 9/2020 LAB. PI:- Write a program to simulate the working of STACK wring an array, with the following: (a) push, (b) pop (c) display. The program should print appropriets messages to STACK OF & UF. #include < stolio. h> H include < conio. L> # include < process. h> # define STACK\_SIZE 5 int top = - 1; int s[5]; int item; void push () if (top == \$4 STACK\_SIZE -1) of printf (" STACK GVERFLOW, cannot push more elements into the struck!'); returnj? ehe top + = 1; 4 Int pop () if (top = = -1) printfl" STACK UNDERFLOW, struk In"); return & s [top - - ]; void display () if (top = = -1) printf ("STACK UNDERFLOW, no eleme display In");

printf (" Exten The elements of the stack ! ln"); So (i=0; i <= top) i++) 7 print + (" 1 d \n", s[i]); y void main () 2 int choice & , item\_deleted; chrsur (); white (choice = = + H choice for (;;) 0 printf (" Enter: In 1. push In 2. pop In 3. display In 4. enit In") scomf (" 1" /.d", & choice); switch (choice) Case 12 print+1" Enter the element to be inserted \n"); Scomf ("/d", ditem); push(); briak; case 2:



item - deleted = pop (); if (item-deleted = 0) printf ("Item popped = 1.d In", item-deleted) break; case 3: display(); briak; defruitt : ent (0) gehh ();