1st Lab program Write a program to simulate the worken of stack using an array with b) Pob() c) display() The program shot print appropriate message for stack onerflow and underflow. Sol' # include < stdio. h) # include < stdlip.h) # define stacksize 3 ent top=-1, int s[10]; int item: void push ij (top == stack size -1) 1 print f (" stack overflow \h").

Tetwer;

top=lop+1; S[-lob] = item; int pop () if (top==-1) return 1; return s [top -]; void display () int i; if (top = = -1) print ("stack is empty \n"). Het wen: print of (" contents of the stack \n"). print (" Vid \n", SII).

void main () int item_delete; int choice, while(1) print (" \n 1. push \n 2. pap \n 3. display \n
4. exit \n"). print of ("enter the choice"). sean of ("'/.d", & choice) switch (choice) case 1; print f ("enter item to be inserted in scanf ("/d" 4 item). bush (item). break. case 2; item_delete = pop(). if (item_delete = = -1)

printf ("stack is empty \n");
else print of ("item deleted is ".d \", item_delited). bruak;

case 3: display ():

break;

case 4: exit (o).

defaualt; print f ("imaild \n').

break;