> Write a program to simulate the working of stack using an array with the following, a) Push, b) pop, c) display the progam should print appropriate messages for steech underflow and occurplow

#include < stdio.h>

ion void push () void pap ()

uoid display()
int stack[100] f, choice, to, 2, i; int main () §

int stack[100], choice, n, to, x, i; top= -1;

printf (inEnter size of stack: ");

sconf ("1.d,2m);

(The set I have be in

print ("In 1. push \n2. pop \n 3. Display \n4.

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dos
   print f ("In Enter your chaico: ");
   Sconf ("".d", 8 chaice);
   Switch (choice) {
        case 1:5
      case 2; 5
              pop();
             break;
          display();
  case 4; §
          print ("in exited");
default: {

printf("Entera valid chaice");

- "Scant"
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while (chaice != 4);
 return o;
void push () §
          i + (top >= n-1) g
                printf ("In Stack overflow");
        3 else g
           print ("Enter value to be pushed: ");
           8 conf (" /.d", &x);
            toptt
          Stack[top] = x;
3
Void pop() §
       i f (top <= -1) g
             printf ("n Stack under flow");
     felse {
             Print f ("In popped clement is 1.d", Stock Gop],
            top-- :
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Void display () { if (top>=0) { Printf (" on elements in the stack In); for (i=top; i>=0;i--) printf (">(n),d", stock[i]; 3 else { printf (" In stack is empty");

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