Write a C program that implements stack (its operations) using Arrays

Program:

#include<stdio.h>

#include<conio.h>

int st\_arr[20]; int t=-1;

void push\_ele(int ele); int pop\_ele(); void display\_ele();

void main() { char choice,num1=0,num2=0; while(1)

{

clrscr();

printf("======================================");

printf("\n\t\t MENU ");

printf("\n======================================");

printf("\n[1] Using Push Function");

printf("\n[2] Using Pop Function");

printf("\n[3] Elements present in Stack");

printf("\n[4] Exit\n");

printf("\n\tEnter your choice: ");

fflush(stdin);

scanf("%c",&choice);

switch(choice-'0')

{

case 1:

{

printf("\n\tElement to be pushed: ");

scanf("%d",&num1); push\_ele(num1);

break;

}

case 2:

{

num2=pop\_ele(1);

printf("\n\tElement to be popped: %d\n\t",num2);

getch();

break;

}

case 3:

{

display\_ele();

getch();

break;

}

case 4:

exit(1);

break;

default: printf("\nYour choice is invalid.\n"); break;

}

}

}

/\*Implementing the push() function. \*/

void push\_ele(int ele)

{

if(t==99)

{

printf("STACK is Full.\n");

getch();

exit(1);

}

st\_arr[++t]=ele;

}

/\*Implementing the pop() function. \*/

int pop\_ele()

{

int ele1;

if(t==-1)

{

printf("\n\tSTACK is Empty.\n");

getch();

exit(1);

} return(st\_arr[t--]);

}

/\*Implementing display() function. \*/

void display\_ele()

{

int k;

printf("\n\tElements present in the stack are:\n\t");

for(k=0;k<=t;k++)

printf("%d\t",st\_arr[k]);

}