STACK

PROGRAM:-

#include<stdio.h>

#include<conio.h>

int stack[10],n=10,a=0;

void push(int i)

{

if(a==n)

printf("\n Stack is full");

else

stack[a]=i;

a++;

}

void pop()

{

if(a==0)

printf("\n Stack is empty");

else

a--;

}

void display(int n)

{

int i;

for(i=(n-1);i>=0;i--)

{

printf("\n %d",stack[i]);

if(a==0)

{

printf("\n stack is empty");

break;

}

}

}

void main()

{

int i,x,c,t=1;

clrscr();

while(t==1)

{

printf("\n Choice:-");

printf("\n (1) Insertion");

printf("\n (2) Deletion");

printf("\n (3) Display the stack");

printf("\n Enter the choice: ");

scanf("%d",&c);

switch(c)

{

case 1:

printf("\n Enter the element: ");

scanf("%d",&x);

push(x);

break;

case 2:

pop();

break;

case 3:

display(a);

break;

default:

printf("\n Error");

}

printf("\n Want to continue with the stack? [yes(1) or no(0)] : ");

scanf("%d",&t);

}

getch();

}

OUTPUT:-



