**/\* Stack lab number 1\*/**

#include<stdio.h>

#include<conio.h>

#include<process.h>

#define max 5

int tos=-1,stack[max];

void push()

{

if(tos==max-1)

printf("Stack is full\n");

else

{

int a;

printf("Enter the data to push in a stack:");

scanf("%d",&a);

tos=tos+1;

stack[tos]=a;

}

}

void pop()

{

if(tos<0)

printf("Stack is empty\n");

else

{

printf("The data popped from a stack is: %d",stack[tos]);

tos=tos-1;

}

}

int main()

{

int choice;

clrscr();

do

{

printf("\nEnter your choice \n1.Push \n2.Pop \n3.Exit\n");

scanf("%d",&choice);

switch(choice)

{

case 1:

push();

break;

case 2:

pop();

break;

case 3:

exit(0);

}

}while(choice<=3);

getch();

return 0;

}