#include <stdio.h>

#include <stdlib.h>

#define N 5

int stack[N];

int s;

int top=-1;

int i;

int item;

void push(){

if (top==N-1){

printf("stack is full, overflow condition\n");

return;

}

else

{

printf("enter element to be inserted\n");

scanf("%d", &s);

top++;

stack[top]=item;

}

}

void pop(){

if (top=='/0'){

printf("stack is empty, underflow condition\n");

return;

}

else

{

printf("enter element to be deleted\n");

item=stack[top];

top--;

printf("element to be deleted is %d\n", item);

}

}

void display(){

if (top>=N){

printf("the elements in stack\n");

for(i=top;i>=0;i--)

{

printf("stack element is %d", stack[i]);

}

}

else

{

printf("stack is empty\n");

}

}

void main()

{

int choice;

do{

printf("1 for push, 2 for pop, 3 for display\n");

scanf("%d", &choice);

switch(choice)

{

case 1:

push();

break;

case 2:

pop();

break;

case 3:

display();

break;

case 4:

exit(0);

break;

default: printf("invalid input\n");

}

}while(choice!=4);

}