**// Implementation of Stack using Array**

#include<stdio.h>

#include<conio.h>

#define max 5

int stack[max];

int top=-1;

// function for push the element into stack

void push()

{

int element ;

if(top==max-1)

printf("Overflow");

else

{

printf("Enter a number ");

scanf("%d",&element);

top=top+1;

stack[top]=element;

}

}

// function for pop the element from the stack

void pop()

{

int element;

if(top==-1)

printf("Underflow condition");

else

{

element=stack[top];

printf("pop element is %d",element);

top=top-1;

}

}

// function for display the element of the stack

void display()

{

int element,i;

if(top==-1)

printf("Underflow condition");

else

{

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

{

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

}

}

}

//Driver function

void main()

{

int ch;

printf("1.push\n");

printf("2.pop\n");

printf("3.display\n");

printf("4.exit\n");

while(1)

{

printf("\nEnter your choice\n");

scanf("%d",&ch);

switch(ch)

{

case 1:

push();

break;

case 2: pop();

break;

case 3: display();

break;

case 4: exit(0);

default:

printf("Worng key");

}

}

}