```
#include(stdio.h)
#include(stdib.h)
# define size 5
int top:-1;
void push(int stack[],int item)

{
    if(top=size-1)
    printf("STACK OVERFLOW \n");
    else
    {
        top++;
        stack[top]=item;
    }
}

int pop(int stack[])

{
    if(top==-1){
    printf("STACK UNDERFLOW\n");
    return -1;
    }

else

int item=stack[top];
    top--;
    return item;
}

yould display(int stack[])

{
    if(stack[])
}
```

```
you'd display(int stack[])

print ("contents of the stack \n");
for (int i=top;i>=0;i--)

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

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

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

int main()

int stack[size];
int choice,element;

for(;;)

{

printf("\n1.push\n2.pop\n3.print\n4.exit\n");
printf("enter your choice\n");

scanf("%d",&choice);

switch(choice){

case 1:
    print ("enter element\n");
    scanf("%d",&element);
    push(stack,element);
    break;
    case 2:
    element=pop(stack);
    if(element=-1)
    print ("stack UNDERFLOW\n");
    else
    printf("element popped :%d",element);
    break;
    case 3;
    display(stack);
```

```
1.push
2.pop
3.print
4.exit
enter your choice
1
1.push
2.pop
3.print
4.exit
enter your choice
1
enter element
2
1.push
2.pop
3.print
4.exit
enter your choice
1
enter element
2
1.push
2.pop
3.print
4.exit
enter your choice
1
1.push
2.pop
3.print
4.exit
enter your choice
1
enter element
3
```

```
1.push
2.pop
3.print
4.exit
enter your choice
1
1.push
2.pop
3.print
4.exit
enter your choice
3
contents of the stack
5
4
3
2
1.push
2.pop
3.print
4.exit
enter your choice
3
contents of the stack
5
4
3
2
contents of the stack
5
4
3
contents of the stack
5
```

```
4.exit
enter your choice
2
element popped :5
1.push
2.pop
3.print
4.exit
enter your choice
2
element popped :4
1.push
2.pop
3.print
4.exit
enter your choice
2
element popped :3
1.push
2.pop
3.print
4.exit
enter your choice
2
element popped :3
1.push
2.pop
3.print
4.exit
enter your choice
3
contents of the stack
2
1
```

```
contents of the stack

2

1

1.push

2.pop

3.print

4.exit
enter your choice

4
end of operation

...Program finished with exit code 0

Press ENTER to exit console.
```