

PRACTICAL – 27

AIM: Write an assembly language program to count the numbers in an array
(negative & positive)

CODE:

```
org 100h
```

```
mov [4000h],01h
```

```
mov [4001h],05h
```

```
mov [4002h],03h
```

```
mov [4003h],-04h
```

```
mov [4004h],-02h
```

```
mov dl,00h
```

```
mov dh,00h
```

```
mov cl,05h
```

```
mov bx,4000h
```

```
L2:
```

```
mov al,[bx]
```

```
inc bx
```

```
shl al,01h
```

```
jc l1
```

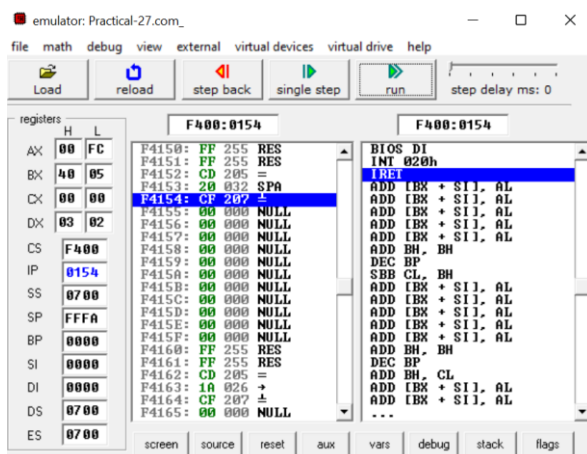
```
inc dh
loop l2
jmp exit
```

```
l1:
inc dl
loop l2
exit:
```

```
mov [4007h],dl
mov [4008h],dh
```

```
ret
```

OUTPUT:



CONCLUSION: In this Practical we learnt how to count number of positive and negative numbers in an array