Code:-

%macro display 2 mov rax,1 mov rdi,1 mov rsi,%1 mov rdx,%2 syscall %endm global _start section .data ;Taking input from user array1 dw 9122h,0F000h,3789h,982Ah,8000h count db 05h msg db "number of positive numbers are:" msg_len equ \$-msg msg1 db 0Dh,0Ah,"number of negative numbers are:" msg1_len equ \$-msg1 section .bss pcount resb 1 ncount resb 1 section text _start: mov rsi, array1 up: mov ax,[rsi]

```
bt ax,15
```

jnc dn
inc byte[ncount]
jmp nxt

dn: inc byte[pcount]

nxt: add rsi,2 dec byte[count] jnz up

display msg,msg_len add byte[pcount],30h display pcount,1

display msg1,msg1_len add byte[ncount],30h display ncount,1

mov rax,60 mov rdi,0 syscall

Output:-



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