

MICROPROCESSOR LABORATORY

Assignment No. 1



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DIVISION:- A

Assignment No. 1

Program:

```
%macro read_or_print 4
mov Rax, %1
mov Rdi, %2
mov Rsi, %3
mov Rdx, %4
syscall
%endmacro
```

%macro exit 0 mov rax,60 mov rdi,0 syscall %endmacro

section .bss array resd 200 counter resb 1

section .text global _start _start:

; Accept numbers in an array mov byte[counter],09 mov rsi,array loop: read_or_print 0,0,rsi,17 add Rsi,17 dec byte[counter] jnz loop

;display Contents of Array mov byte [counter],09 mov rsi, array loop1: read_or_print 1,1,rsi,17 add Rsi, 17 dec byte [counter] jnz loop1 exit

```
</>
Code
                                                                                        Run
                                                                                                  Save
           ≡ Input
                     >_ Output
 1 %macro read_or_print 4
 2 mov Rax, %1
 3 mov Rdi, %2
 4 mov Rsi, %3
 5 mov Rdx, %4 syscall
 6 %endmacro
 7
 8 %macro exit 0 mov rax,60 mov rdi,0 syscall
9 %endmacro
10
11 section .bss array resd 200
12 counter resb 1
13
14 section .text global _start
15 _start:
16
17 ; Accept numbers in an array mov byte[counter],09
18 mov rsi, array loop:
19 read_or_print 0,0,rsi,17 add Rsi,17
20 dec byte[counter] jnz loop
```



Input:



Output:

