SYSTEM PROGRAMMING LAB

NIRAJ KUMAR BT19CS031 CSE, IV SEM

Question 1: Write an assembly language program to print your name, enrolment id, and branch using macros.

- ; A macro with two parameters
- ; Implements the write system call

```
%macro write_string 2
   mov eax, 4
   mov ebx, 1
   mov ecx, %1
   mov edx, %2
   int 80h
 %endmacro
section .text
 global_start ;must be declared for using
gcc
                 ;tell linker entry point
start:
 write_string msg1, len1
 write_string msg2, len2
 write_string msg3, len3
```

```
mov eax,1 ;system call number
(sys_exit)
int 0x80 ;call kernel
```

section .data

msg1 db 'NIRAJ KUMAR',0xA,0xD

len1 equ \$ - msg1

msg2 db 'ENROLLMENT NO. - BT19CS031,',
0xA,0xD
len2 equ \$- msg2

msg3 db 'BRANCH - COMPUTER SCIENCE AND ENGINEERING'

len3 equ \$- msg3

OUTPUT -

