## Assignment No 5

Title - File handling. (Neas & Fas proceduse)

Problem Statement: Write x86 ALP to find

- a) Number of Blank spaces.
  b) Number of lines.

  - c) Occurrence of a pasticulas charactes

Objective :

- . To understand the following in ALP
  - Neas procedure.
    - Faz procedure.

outcome: We will able to study near & far procedure & there application.

Software packages : hlw appratus

edito E- gedit assemble E- HASM Debugger - 9db

Theory:

Near call procedure: It refers to which in same rode Segment.

A Faz call: It refers a procedure which is in different code segment. It is also called Intra- segment call.

Near call replaces the old IP with new JP. a far call replaces CS & IP with row CS & IP.

• Procedure is group of instruction that vausally performs
one task. It is remable section of slw program
which stored in memory once, but can be
used when often necessarry.

Neas call

face call

- · a near call refers a procedure

  which is in some code segment: which in different code regression.

  Jt is also called Intra-feamont. In it is called Interest Call.

  Segment call.

  Jet wer keyword near for calling It was keyword for for procedure.

  Calling procedure
  - · Less stack location are required . More stack location are required.

System calls to be required:

· Open a file

moy rax, 2 mor rdi frame 1 mov ysi, 2 mov 1dx, 0777 Syscall

j open syscall
; file name ; file acress mode ; permission set.

- Read a file

mov rdi, [fd\_in]; file pointer mor rsi, Buffee ; Buffee for read mov rdx. length Syscall

; len of data want to read.

· write a file

mor rax, of ; write syscall mov rdi, [td-in]; file pointer Syscall

mov rsi, Buffee ; Buffee for write mov rdx, length; len of data want to read

