Page No.: AMEY B 50 A Date: Flowchart for Pass 1 of Two Pais SA Assembler Pars 1 Lceo Read Card KEUD 1 54150 Found DRON Search Which END FQU Preudo one P 2QOP-Table PC POTGET-1 Evaluate Adjust LC to M.Ot forug operand field proper Sea- ch ENAL allgoment machine OP-Table MOTGET L = length of data field L < length Assign ralue DLENGTH rilodures of label field Process any OTITZ 1: read enter LTSTO Assign stomge location to AUSIEN current LIT AUS value of LC to mere Yes 100my2 symbol in label Held! 57570 100 Reset Copy LC ELC +L HIE Make copy of cased on Ale for weby Pass 2 Onto Pass 2 WHITE-1

Page No.: YOUV AMEY Amer B 50 These both are the assembler disective that tells the assembler something it needs to know in order to carry out the assembly process De stands too Define Constant. In assembly language specified as

Clabel > DC < value > Define consent

Clabel > DS < value > Petine Storage < label > = Symbolic name, < value> = It indicates the value supplied by the programmer They can affect both Lc and the definition of the Symbol in the pass -1. EQU: Define the symbol and assign the value evaluate by The expression in the operand Held (3) Using and Drop. - These Prendo - Opcodes neither define symbols labely nor affect the location counter. So no processing required only save the USING and DROP cands for paus 2 @ END: - When END is encountered pars I is terminated and literals are assigned the storage locations and The mentioned steps are repeated for next iteration

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©B Dynamic Linking Loader
- Dynamic Linker Loader is a special part of an operating
system that loads external shared libraries into a running
process and then binds those shared libraries dynamically
to the running process. This approach is also called
dynamic linking or late linking.
- It retrieves the addresses of functions and variables
contained in the library execute those functions or
access those variables and unload the library from
memory
- It is often used to allow several executing programs
to share one copy of subsortine or library.
For eng run time support routines for C could be
stored in dynamic link library. A single copy of the
routines in the slibrary could be loaded into the memory
of the computer. All c programs currently in execution
could be linked to this one copy, instead of linking a
separate copy into each object program.
- It provides the ability to load the routines only when
- It provides the ability to load the routines only when they are needed so lot of time and memory is saved
if subsortines are large with lots of external references.
- It helps in not loading the entire library for execution.
- In dynamic linking loader is used to load the main program
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Advantage
- No over head is incurred unless the procedure to be called
or referenced is actually used.
- A further advantage is that the system can be dynamically
configured.

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Disadvantage - Considerable overhead and	complexity incurved, due to	
the fact that we have process until the execu	postponed most of the binding	
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