High well language (ALL) compilers help
translate statements from from their language.
into assembly language and machine code (15 mm)
0's). Usually a program written in a specific
language (such as Ent) will be tombted into
respective byte code by the complete

(Low Level code)

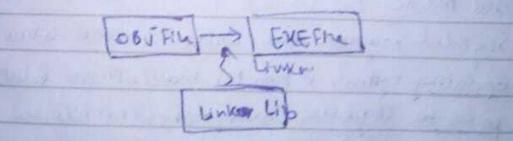
Job of 05 is to load the executable file (exe)

Into memory and branches the CPU to the programs

Sorting address (may introduce come registers

as instruction pointer) and then begins executing

Program (program starts running)



The provis of linking is done by linker when reads

Object file and cheeks if them are any calls to

PROCS from Unk Ub.

This is basically done to Capy any required posedure from una Ubrang, combine them with OBJ file to create exe fire (which goes to be londer)

WESP (11 Stack 11) WEST (11 Source Index) Istol (" distriction Index) 15 FDI (11 des 4 motion indx) Li EIP (1 Instruction pointer) P7 14 60 16 Bit Segment Regitators: 4 455 7 . 7 . 7 . 7 . 7 0005 6367 LIFS 6)95. (B) 8 bit! LOAH, AL LO BH, BL WCH, CL LO DHOPL.

Date.

3(a) Segment: ABOG
Offseet 1,5089

A 80 E A 80 E0 A 80 89 + 50 89

B06694

(b) Segment = 8FE 3

Offset: ?

Real Add: A 835

A 8 3 5 F -8 F E 30 1 8 5 2 f t Offset

(c) segment,

Pred Add: FF 4TD.

FF 41D + 5 E 6D F 9 S B 0 - Segment (d) Real Address! A 5.86D.

Offset: 440ED - January

RA = (S* 10)+OFF

AS D6 D-440FD = S(segment)

Signment = 61A8

un Bostcully when Janes code is trusformed two Java byte code any 05) the HLL code is transformed two Java byte code (. class entermion) This byte-code is platform independent (key feasure of Java potantably). Now but for this byte code or, class to be accepted we were a Jum C Java unvivous machine) which residently and A M of 05.

JUNIS 30 b 13 to see which protform 13 on vom and conver the byterade to machine cobe c this is platform independent (diff machine code for MAC -0 S juli-2001 32, Limin)

VIVIUAL -8086. -> Each program cum uddress q PEAL ADDRESS ronly IMB of memory can max 45B momony bu orderesod (o to FFFFF) -> Programs court access any -> programs conaccess any other memory other than part of memory. their own. -> runs Mi-Dos -> Allowar IMB of memory to hun MS-DOS -) programs in real-coldross conceuse DS to corosh -> Even if Ms Dos Crashes, bocone program rumdirectly on it will not affect other hourd wave, it has to. programs running at some time unlimbed memory. -> In virtual protected made nums in a background and deelds what memory has access some might be wirthal and others similated by system

() Control flags:

Lidetermines how instructions are convied out Literable or disable certain options operations. 1) They include:

> b) Direction flag (affects direction of block deuta fransfers)

b) Interrupt flag (determines when interruptions Canoceur)

L) Trap flog(destermines wether CPU is halted after every instruction).

Status flags!

Lo reflect the outcomes of anothereticand logic operations performed by CPU.

Is enable an instruction hard on result of previous intruction,

Ls They include;

is carryl when there is a conray digit after arctimetic op)

2) Overflow (some as carry but for signed grelmety) 2) sign (1 = negative, 0- positive).

Lo Zero (when overtimer is result Indicates includes all zeros, 1-yes; 0-no)

L) Amer Hany Carry (when Gry Occurs from 3rd

bit)

Lagarity (even number of bits or odd)