

\* HOW UP WONRS?

- Instanctions and data are stored in memory, up fetch instanctions from memory using address and data bus, decodes the instanction and executes it.
  - Hille executing instanctions,

    singister assay inside the Mp 12

    Used for storing temp. data,

    alu (arithmetic and logic unit) is

    executing the operation (performing

    Computation).
- -s dy to primming of pp s-
  - Lack up has its own set of instructions based on its design.
  - L? To communicate with pips we need to give instructions in binary long. (machine lang.)

Because large of 0s and 1s is
difficult to write and debug;
manufacturiers have deviced
English-like words to represent
the binary instructions.

La Paragrammers Can waite programs
in english-like long. known as

A ssembly lang. I machine
dependent

\* 8085 will have its
own assembly long,
ingrove-tions

Assembly\_ ADD <u>110ehire</u> <u>code</u>

MICRO-PROGRAMMING.

ASSEMBLER

S/W That

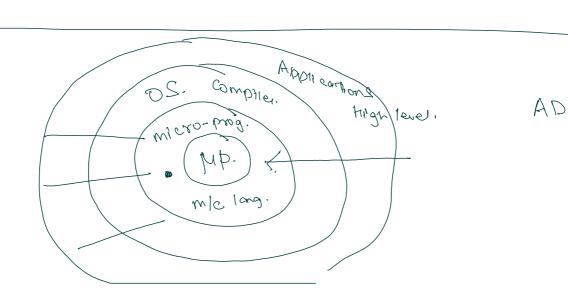
Convers

Assembly

code

to

m/c code



INSTRUCTION: 18 a binary partern (combination of 0s and 1s) which is entered on stored in memory to command up to perform speakic function.

## 8085 Instauctions

- \* Word-length of 8085 Mp is 8 6/79.
- # How many combinations can be obtained using 8-6175?

2 where n = no. of 6/72.

 $= 2^9 = 256$ 

Ly Bosed on this point, 8065 MP Can understand 256 different Combination of 8-6/12 word.

Ly Now to depending on 2005 Mp hardware (architecture), all ar Some of the Combinations out of 256 will be used as instruction. Ly 8085 Mp 246 bit patheins are having meaning Ly However, 74 instanctions are formed using this 246 bit parren. Operand & darta Opcode ingrowers on Registers ? memory I/o device. 40
(Ad 01; -t, ion. operad. X 8-bit. ALU Size Brbit. ve cezzard Adder. 78 bit.