

· Fig shows the internal architecuture of 8085. -> The airthmetic / logic unit perform the computing functions; it includes—the accumulator, the temporary register, the airthmetic & logic circuit and fine → The temporary register is used to hold date during airthmetic / logic operation. The results are stored in a commulator and flags (flip-flops) are set or reset a crossding to the result of the operation. The flags are affected by airthmetic and logic operation in the ALU. The results are stored in accumulator

The description model.	of flags are mentioned in programming
29 BC + DE	1111 L Carey 1011 1100
+ DE 9A	$+ \frac{1101}{1100} \frac{1110}{1100} = 1, S=1$ $Z=0 \text{ ? ALB=X}$ $AC=0$
12 + 14 = 26	9 A P= 1
26 - 16 = 10 $11 + 13 = 24$	SZACPCY=1

25 -16 = 9

- (1) Timing and Control Unit
- This unit synchronizes all the microprocessor operations with the clock and generales the control signal Necessary for communication between the microprocessor and peripherals.
- (11) Instruction Register and Decoder.
- → It is the part of ALV.
- When an instruction is fetch from memory, it is loaded to the instruction register.
- → The decoder decodes the instruction and extablishes the sequence of event to follow.
- The instanction register is not peogrammable and cannot be accessed through any induction
- (iv) Register Array

  Timo registers C temporary registers) w & z are included in the register array.
- -> These registers are used to hold b-bit data during during the execution of some instenctions.
- As these are used internally, they are not available to the peogrammer.