CPU Registers 1-5 · Small storage inside CPO

L7 2 types

· general purpose -> (G. P. R)

· Special purpose -> (S. P. R) Special purpose Rogister Accumulator (AC) Program Counter (PC) Instruction Register (IR) Stack pointer (SP) Flag Register/program Status word (PSW)
Address Register (AR) / Memory address
Register (MAR)

Data Register (DR) / Memory data

Register (MDR/MBR) Memory buffer Rogis Fe

	Oate: Page No.:
*	Accumulator
	used to store result of ALU and sometimes one of the operand for ALU too
0	perands = > [ALU forester] AC]
	· Alo can have only 2 input at a time
*	Program Counter oused to the address of next instruction to to executed.
*	Instruction Register - used to store current instruction.
*	Stack pointer - used to store the address of the
*	Flag Register / Status Register -> Used to Store Status of ALU result. Dr D6 D5 D4 D3 D2 D, D0 [SZ[Ac]P[CY]
	The second secon
	also Conditing checker
*	Address or Memory Address Register
	Used to send address to memory

Date & Memory Date Register · Send data to memory (memory wind)
· to receive data from memory ememory read

* Types of Architecture

Based on ALU input:

AC - based Architecture Register based Architecture

" Memory based Sochitecture

Complex System Architecture

Stack based Architecture

Accumulation based architecture

in this arch. We can have one operand (input) from accumator for Sure and 2nd one is open.

* ALU dake input form from Cr. P. R. Called register based aschitecture.

Register based memory based xrchitecture -?
ALU con will take one operand to
from GRR for Sure and 2nd one
from GRR or memory

* Complex System arch -> we can take input from anywhere co. P. R or memory