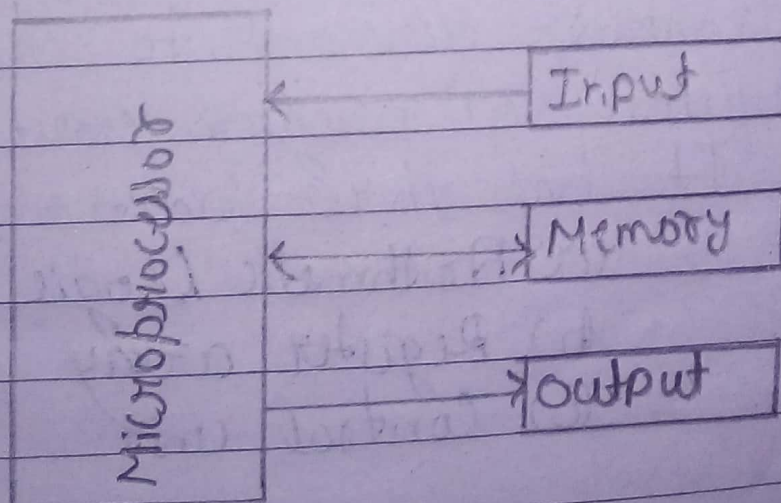


Microprocessor-

A microprocessor (MP) is an electronic component that is used by a computer to do its work.

or A microprocessor is a programmable electronic chip that has computing & decision making capabilities similar to CPU of a computer.

or microprocessor is a multipurpose programmable, clock driven, resistor based digital integrated circuit (IC) that accepts binary data as input & processes data according to instructions stored in memory and result as output.



MP

Input/output

ALU

Register Array

Control

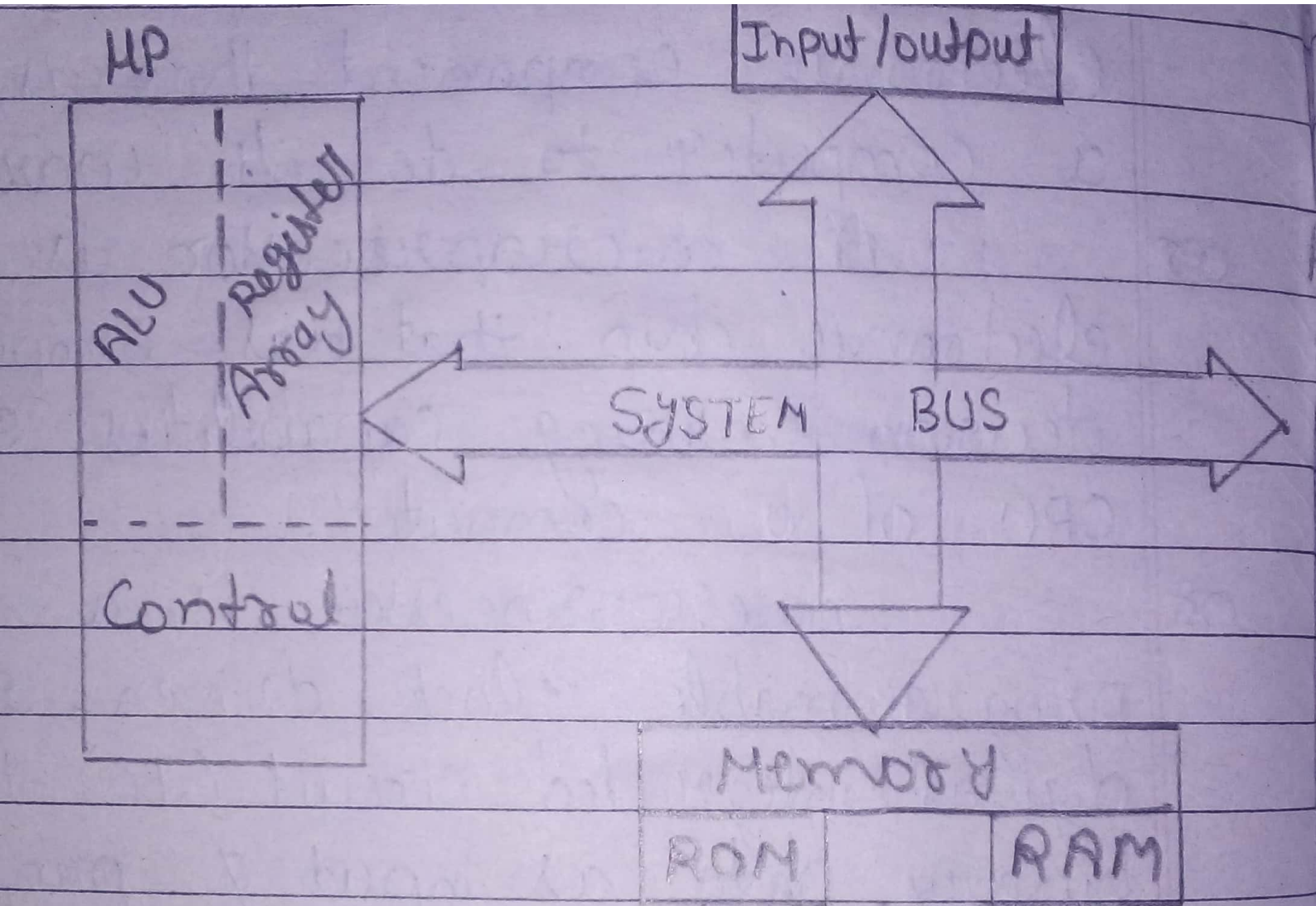
SYSTEM

BUS

Memory

ROM

RAM



Microprocessor	YEAR	Address Bus	Data Bus	memory Capacity
4004	1971	10-bit	4-bit	640 B
8008	1972	14-bit	8-bit	16K
8080	1974	16-bit	8-bit	64K
8085	1976	16-bit	8-bit	64K
8086	1978	20-bit	16-bit	1 MB
8088	1979	20-bit	16-bit	1 MB
80286	1982	24-bit	16-bit	16 MB
80386	1985	32-bit	32-bit	4 GB
80486	1986	32-bit	32-bit	4 GB
Pentium	1993	32-bit	64-bit	4 GB
Pentium Pro	1995	36-bit	32/64-bit	64 GB
Pentium II	1997	36-bit	64-bit	64 GB
Pentium III	1999	36-bit	64-bit	64 GB
Pentium IV	2000	36-bit	64-bit	64 GB
Itanium	2001	64-bit	64-bit	64 GB