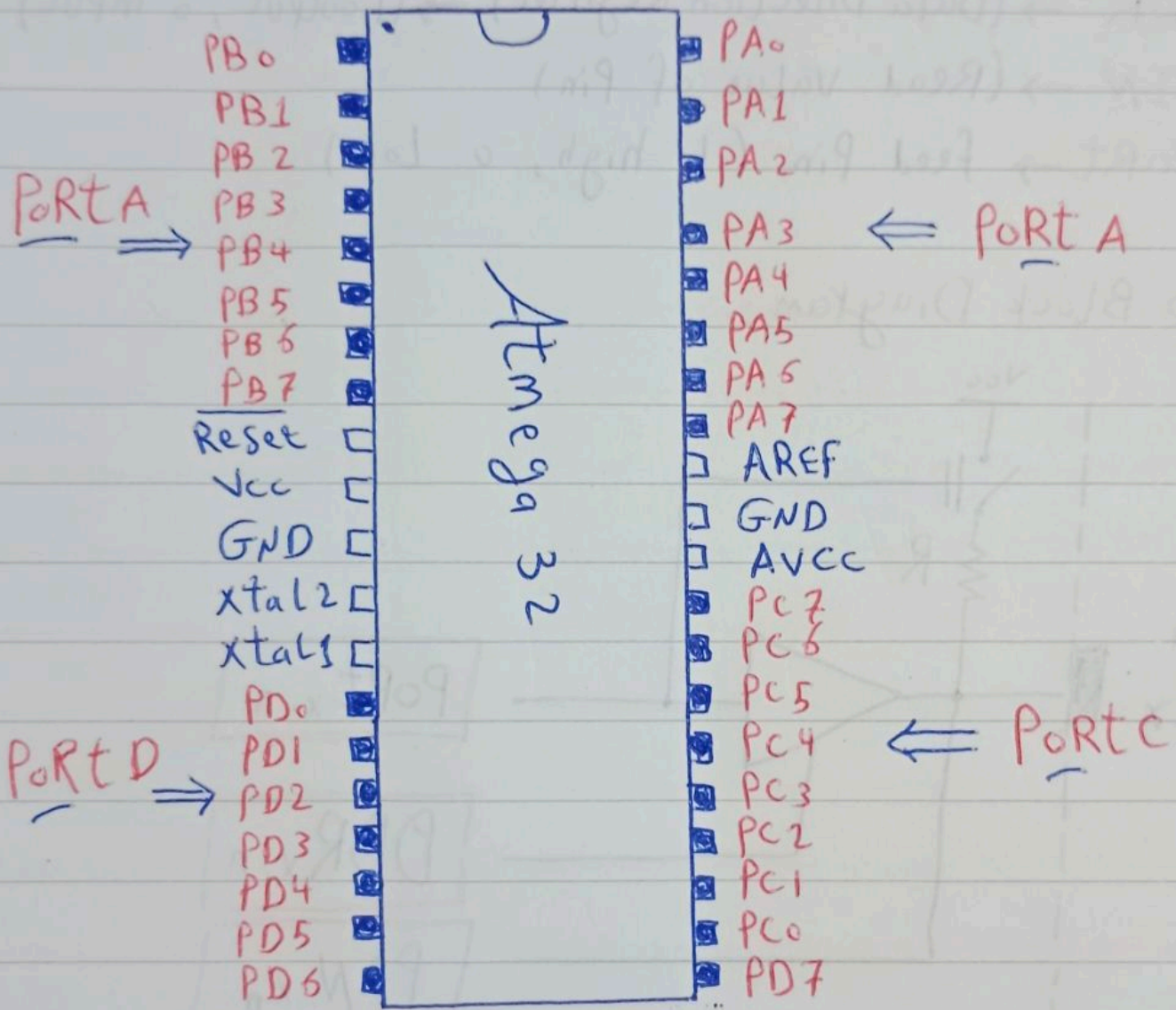


1) DIO :-

(Digital input output)



* atmega 32 Mc

has 40 Pins

32 Pins Can Used as DIO

↳ 4 port

1) Port A

3) Port C

2) Port B

4) Port D

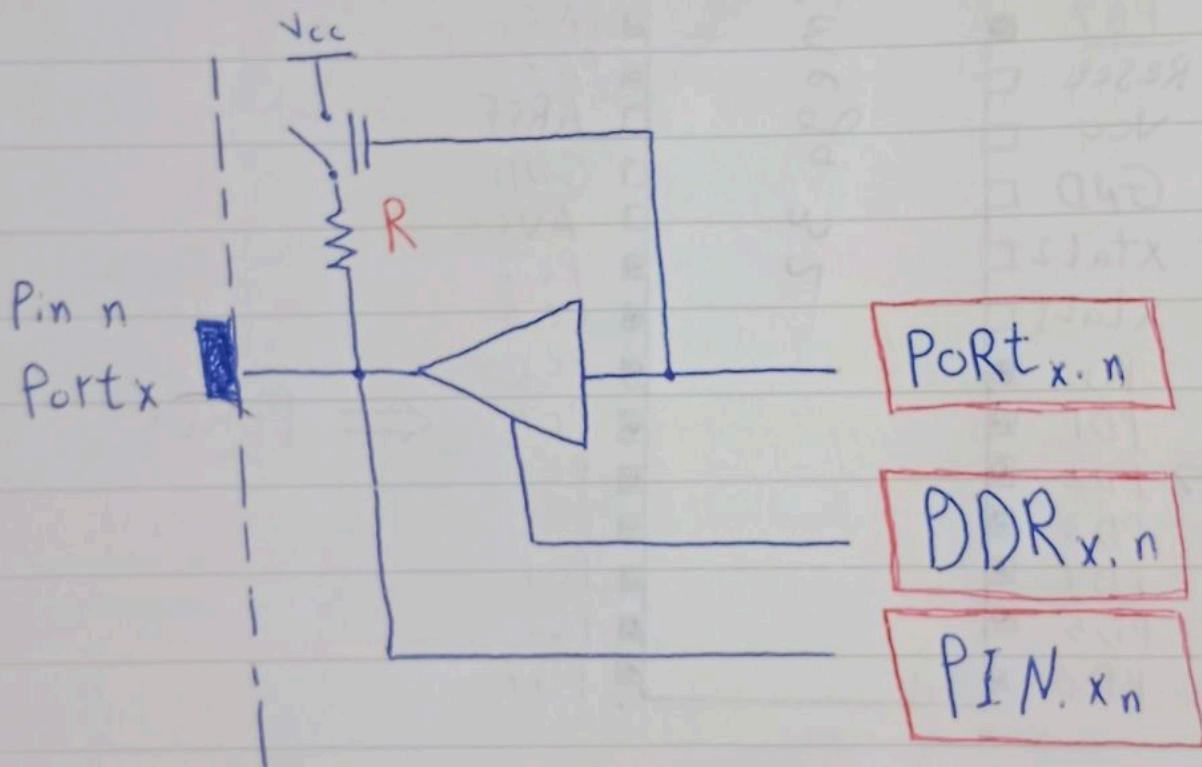
8 Pins (Reset, Vcc, AVcc, ARef, Xtal1, Xtal2, GND)

* Every Port has 3 Control Registers

↳ each Register is 8 bit (byte)

- 1) **DDR** → (Data Direction Register) → (1 output, 0 input)
- 2) **PIN** → (Read Value of Pin)
- 3) **PORT** → feed Pin (1 high, 0 Low)

* **DIO Block Diagram:**



* **Functions of DIO Driver:**

- 1) Set Direction
- 2) Set Levels
- 3) Toggle
- 4) Read Value
- 5) Pull up Resistor

#