# OS Lec-6

5 Steps :-

1. Power ON

ON ⟶ Power supply

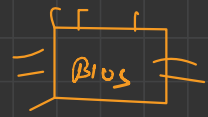
→ Mother board

→ Harddisk :> Storage

## ② CPU Loads BIOS or UEFI

① CPU init :

② goes to a chip BIOS



③ BIOS or UEFI run tests & init hardware

3.1) Loads some settings from (a memory area,)

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Backed by CMOS Battery

3.2) Program Loads with settings

POST → Power on self test

(4) BIOS or UEFI, hands off to Boot device

Boot devices → disk (HDD or SSD)
→ CD
→ USB device

Boot loader → Program execute → ON actual OS

(1) MBR → Master Boot Record
disk → 0th index

Old systems

② EFI ⇒ Partition in disk

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Boot loader

③ Boot loader. Loads the full OS

Program ⇒ actual OS initialize

Windows ⇒ ~~boot~~ bootmgr.exe

Mac ⇒ boot.efi

Linux ⇒ GRUB.