**BOOTING PROCESS OR STARTING PROCESS**

*Process of Start or Restart the computer is known as Booting*. When we start the computer first time is known as *Cold Booting*, and when we restart the computer which is already start is known as *Warm Booting*.

Computer used *Kernel* and OS instructions to start, which is stored in ROM & hard disk. Kernel is the central part of the system. Kernel is also known as residence of the memory.

**Starting Process**When we start the computer, electricity flow towards motherboard and all other components of system.  
\* *Electricity flow toward ROM (Read Only Memory) chip. ROM chip stored a BIOS (Basic Input Output System) firmware. BIOS run a test to check if all the peripheral devices, memory and hardware of the PC are working properly. This test is called POST (Power On Self Test).*  
 POST compare the data of CMOS chip mounted on the motherboard. It also detects new devices connected with the computer. CMOS chip contains:-  
Memory Size  
Types of Disk Drive  
Keyboard or Monitor  
Current Data & Time

If any of the hardware components of the PC are not in proper condition, it generates beeps or display message on screen or stop operating process.

[*The errors that cause the system to stop booting are of two types – fatal and non-fatal. In case of non-fatal errors an error message usually appears on the screen. In case of fatal errors the boot process stops immediately and the user gets a series of audible beeps.]*

\* If POST successfully completed, then BIOS search system files (also called OS files), after locating that files, then Kernel load them in memory then OS start there processing. OS load configuration information which is in the windows registry.

All system configurations are load in Windows registry.