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BIOS Setup Utility

The computer BIOS setup utility (also known as the CMOS setup) is the place where we can change a few basic computer hardware settings. The BIOS contains all the settings and the CMOS memory is a piece of RAM that remembers all the info.
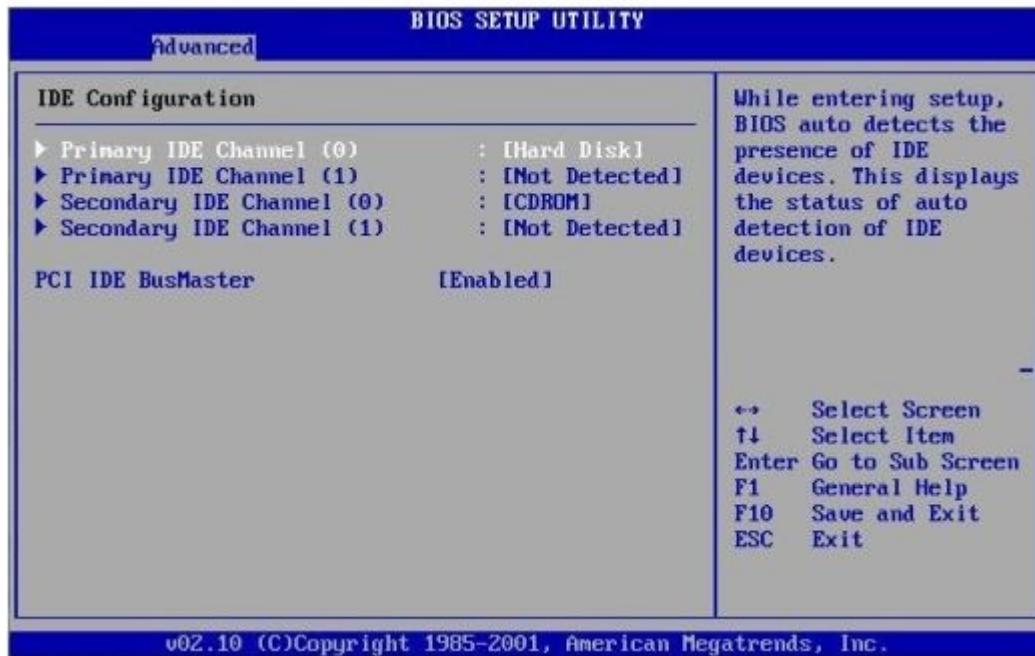
In the case of many computers pressing delete or F10 in the booting process will bring us to the BIOS setup utility. If these don't work, then our computer will specify on startup such as (press ******* to enter setup) or it will be mentioned in our manual.

When we are in the setup, we can change many options. We can change the order of booting, which device do we want the computer to boot to etc. We can decide whether to disable particular devices (such as onboard sound or network cards). We can change the date or time and we can also reset the CMOS back to factory settings. The settings in the BIOS depend on each manufacturer.
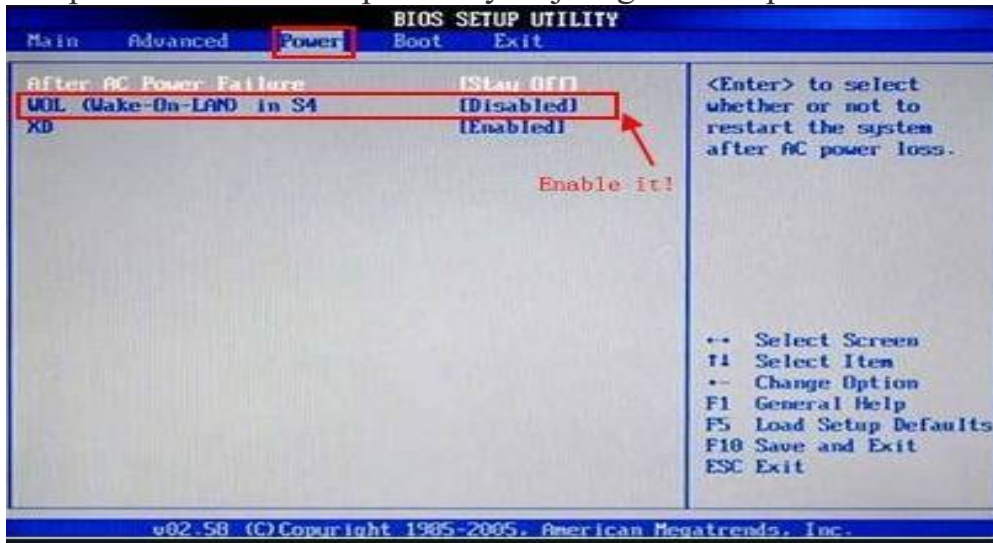
Advanced Tab

In the advance tab we often find information on the IDE configuration, the Floppy Configuration, the Boot Settings configuration. We can further investigate by pressing enter over the IDE configuration and then looking at the items listed. It will have all our hard drives and cd/dvd drives listed here. If we have two hard drives connected then two will show up here.

```
                          BIOS SETUP UTILITY
        Advanced

   IDE Configuration                               While entering setup,
   ─────────────────────────────────────────       BIOS auto detects the
   ▶ Primary IDE Channel (0)    : [Hard Disk]       presence of IDE
   ▶ Primary IDE Channel (1)    : [Not Detected]    devices. This displays
   ▶ Secondary IDE Channel (0)  : [CDROM]           the status of auto
   ▶ Secondary IDE Channel (1)  : [Not Detected]    detection of IDE
                                                    devices.
   PCI IDE BusMaster            [Enabled]


                                                 ↔     Select Screen
                                                 ↑↓    Select Item
                                                 Enter Go to Sub Screen
                                                 F1    General Help
                                                 F10   Save and Exit
                                                 ESC   Exit


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```

Power Tab

The power tab is self-explanatory. It just gives us options that we can change.


```
                          BIOS SETUP UTILITY
   Main    Advanced    Power    Boot    Exit

   After AC Power Failure        [Stay Off]          <Enter> to select
   WOL (Wake-On-LAN) in S4       [Disabled]          whether or not to
   XD                            [Enabled]           restart the system
                                                     after AC power loss.
                                   Enable it!


                                                 ↔     Select Screen
                                                 ↑↓    Select Item
                                                 +-    Change Option
                                                 F1    General Help
                                                 F5    Load Setup Defaults
                                                 F10   Save and Exit
                                                 ESC   Exit

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```

Boot Tab

The boot tab of the BIOS setup gives us all the options for when we boot up. We can order the preference in booting. We can choose whether we want to boot from the Floppy Drive, CD drive, or hard drive and in what order.

Security Tab

In this tab we can change all the passwords, or assign passwords to the BIOS. This can be a risky thing to do because we could forget our password

Exit Tab

There are a number of options here. We can exit saving our changes, we can exit discarding changes, we can load optimal defaults and also the failsage defaults.

Exercise:-
1-Write the benefits of BIOS setup Utility.
2-How can we change boot order in BIOS setup?