



## Explain the difference between Random Access Memory (RAM) and Read Only Memory (ROM).

1. The RAM is **volatile**, meaning it loses its contents when the computer is switched off. While the ROM is **non-volatile**, meaning it does not lose its contents when the computer is switched off.
2. The Ram stores data **temporary**, this is because it loses its data upon switching off the computer, while the ROM store data **permanently or semi-permanently** i.e. it does not lose its contents easily unless its destroyed or damaged.
3. With the RAM, the computer user can **read its contents and write on it**, while the ROM which is also referred to as the **WORM**—*Write Once Read Many*, can only be **read** unless it's a special type of ROM *such as* EPROM and EEPROM.
4. Contents in the RAM are **user defined**, this means, it's the user who determines the contents in the RAM while contents in the ROM do **not necessarily depend on the computer user** since it is mostly used to store firmware.
5. The RAM has a **bigger storage capacity** as compared to the ROM

## State in which memory the monitor program would be stored.

**T**he monitor program is firmware, i.e. it is a software from the manufacturer incorporated inside of the graphic card chips. This software controls the operations of the monitor such as color and display. The special chip in the graphic card that stores this program is called **The Read Only Memory (ROM)**. The software is stored in the **mask ROM** to avoid alterations and modifications from third parties.