

Bootstrap loader:

Design a bootstrap loader -

- ① A Bootstrap loader is a small program that is responsible for booting up a computer system by loading and executing operating system. The bootstrap loader is typically first place of software that is executed by computer hardware when it is powered on or reset.
- ② The bootstrap loader is stored in a special location of computer memory called bootstrap area or which is typically located in computer's read only memory or electrically erasable programmable read only memory when computer is turned on the CPU reads bootstrap loader from this memory location and transfer control to it.

The bootstrap loader with main responsible is to locate & load operating system into memory which involves few steps:

- ① First - the bootstrap loader initialises & test computer hardware to make sure that it is working correctly.
- ② Next it searches for operating system boot files on computer storage file device.
- ③ Once it has located the boot files bootstrap loader loads operating system into memory & transfer control to it.

allowing operating system to take over and continue boot process.

The bootstrap loader is an essential component at host process & is responsible for starting up computer & loading operating system into memory. Without bootstrap loader, computer would not be able to bootup & run on any software.