

## HMI Assignment 1

Problem statement:

→ controls that have unexpected functions.

Compact discs (CD) have been a common and well used medium of data storage and sharing in the past two decades, usually carrying a capacity of 700 MB. Meanwhile its advanced version called DVD can store upto 4.7 GB of data.

These discs are inserted inside of a CD-R/RW drive, where a laser diode shines a focused ray on the disc which reflects off of the polycarbonate and aluminium layers of the disc. By measuring the change in reflection of the ray, caused by the bumps, data can be read from the disc.

The problem lies, when the CD, for some reason gets stuck inside the drive. This usually occurs due to the tray being stuck inside. When the software or user via the eject button cannot eject the disc, the problem arises of the disc and drive not being usable.

To solve the above-mentioned issue, a pin-hole is provided with every CD-Drive. The user is supposed to insert a pin and press a button inside that hole to ~~eject~~ force-eject the disc. This hole is also known as manual eject or emergency eject hole.





Disc Tray (Closed)

Manual Eject

Activity Indicator

Eject Button