**VIRTUAL WI-FI**

**Introduction:**

The need for sharing internet with other devices in a home group network or in corporate office has become essential. Internet can be shared in two ways: Share through LAN cables or by wireless routers.

**Existing system:**

To setup a wireless network in any environment, it requires resources such as wireless router and domain knowledge to setup such a system. In such a system, incorrect router settings will be tedious to correct and will take time to get it up and running

**Designed system:**

A new system which would not need a physical router and can share internet is designed. The new system is implemented through Internet Connection Sharing (ICS), i.e the use of a device with Internet access such as 3G cellular service, broadband via Ethernet, or other Internet gateway as an access point for other devices. It was implemented by Microsoft as a feature of its Windows Operating system through command line (command prompt).