

PROJECT -1

➤ INDAC TRAINING -27-4-2022

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AIM: Study one embedded system at your home or college and make one page report.

EMBEDDED SYSTEM:

Embedded systems refer to the use of software and electronics with a dedicated purpose within a larger system or product.

Embedded systems are far more ubiquitous than the general-purpose computer found in almost every home.

As such, there are many examples of embedded systems in daily life.

➔ TYPES OF EMBEDDED SYSTEM

Embedded systems are subdivided into the categories: stand alone, real time, networked and mobile. All four types of embedded systems are in daily life.

- ◆ SO one of the embedded system using in My Home is WIFI ROUTER.

◆ WIFI - ROUTER

What is wifi router

Simply put, a WiFi router is an electronic device that sends data received from an Internet cable to other devices. It also acts as a wireless access point from which it shares data through the use of radio signals. The router converts the data stream delivered by your Internet connection into radio signals. These signals are received by WiFi capable devices such as smartphones, laptops, and tablets.

A typical home has an arrangement of internet-connected devices — personal computers, tablets, smartphones, printers, thermostats, smart TVs, and more. These devices form a network. Home's router directs incoming and outgoing internet traffic on that network in the fastest and most efficient way.

What are the different types of routers?

When it comes to routers, there are only two types you'll need to consider:

1. **Wireless routers.** A wireless router connects directly to a modem by a cable. This allows it to receive information from — and transmit information to — the internet. The router then creates and communicates with home Wi-Fi network using built-in antennas. This provides all the devices on home network with internet access.
2. **Wired routers.** A wired router connects directly to computers through wired connections. They usually have a port that connects to the modem to communicate with the internet. Another port — or ports — allows the wired router to connect to computers and other devices to distribute information.

HOW THE WIFI ROUTER LOOK LIKE:



WIFI ROUTER

THAK YOU!