

INTRODUCTION:-

- ✓ What is IOT?
 - Basically, IOT (Internet Of Things) is a network in which all physical objects are connected to the internet through network devices or routers and exchange data.
- ✓ IOT allows objects to be controlled remotely across existing network infrastructure.
- ✓ IOT is a very good and intelligent technique which "reduces human effort" as well as easy access to physical devices.
- ✓ "Things" in IOT sense, is the mixture of hardware, software, data, and services.

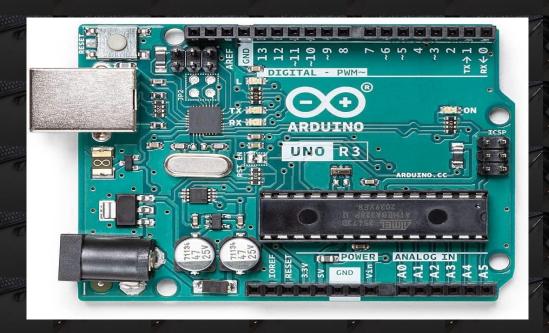
✓ HISTORY:-

The thought of Internet Of Things first became popular in 1999.

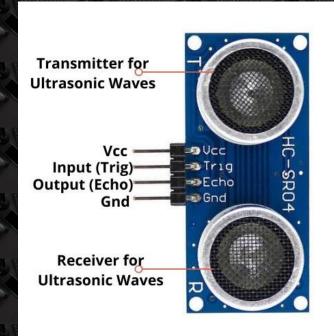
British entrepreneur "**Kevin Ashton"** invented IOT while working at Auto-ID labs.

Barcode scanner, QR scanner, and digital watermarking are the various devices which are working on IOT in the present scenario.

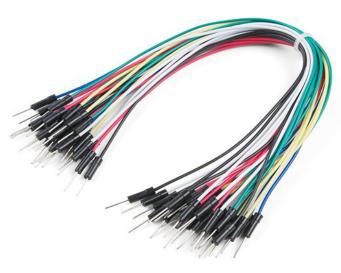
Electronic devices used in IOT:

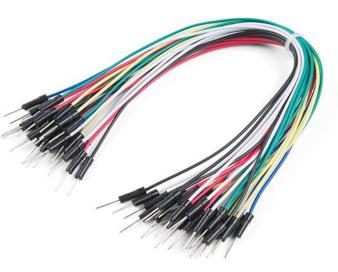


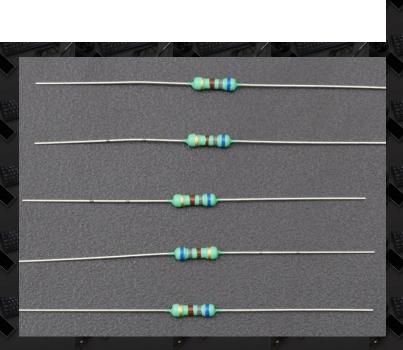




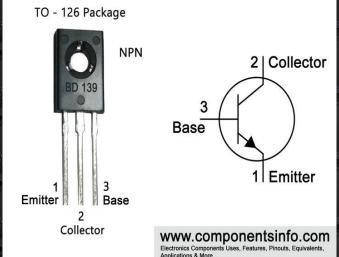


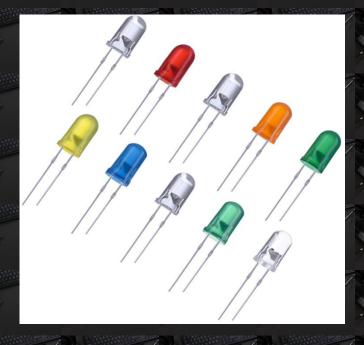






BD139 Transistor Pinout





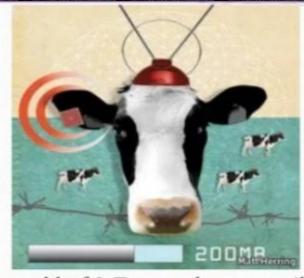




FEW APPLICATIONS OF IOT:

- 1. Smart home application:
 - a. Home safety and security (burglar alarm)
 - b. Voice assistants for disabled people (alexa)
 - c. Air and water quality monitoring
 - d.Gardening management (moisture content of soil)
 - e. Temperature control
 - f. Energy management etc...
 - g. Fire alert
- 2.Smart cities:
 - a. Traffic management (helmet detection)
 - b. Water management (ph of water)
 - c. Waste management
 - d.Smart street lights
 - e. Public safety
 - f. Emergency response
- 3. Internet of medical things(IoMT)
 - a. Remote patient monitoring
 - b. Early detection of disease (cancer cells)

- c. Heart rate, respiration rate, body temperature
- d. E-Token management system
- e. Walking sticks and the headset connected to Bluetooth.(screen reading software)
- 4. Agriculture:
 - a. Soil fertility
 - b.Ph of soil
 - c. Livestock health
 - d. Drones for field monitoring
 - e.Crop yield analysis
- 5. Defence:
 - a. Identifying the enemy (drones)
 - b. Monitoring soldier's health
 - c. Cyber security



In the world of IoT, even the cows will be connected and monitored. Sensors are implanted in the ears of cattle. This allows farmers to monitor cows' health and track their movements, ensuring a healthier, more plentiful supply of



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