What is IoT?

The Internet of Things (IoT) is the network of physical objects or "things" embedded with electronics, software, sensors, and network connectivity, which enables these objects to collect and exchange data.

A "**Thing**" in the context of the Internet of things (IoT), is an entity or physical object that has a Unique identifier, an embedded system and the ability to transfer data over a network.

- Heart monitoring implants
- Biochip transponders on farm animals
- Automobiles with built-in sensors
- DNA analysis devices & Other Wearbles etc.

These devices collect useful data with the help of various existing technologies and then autonomously flow the data between other devices.

COLLECTION
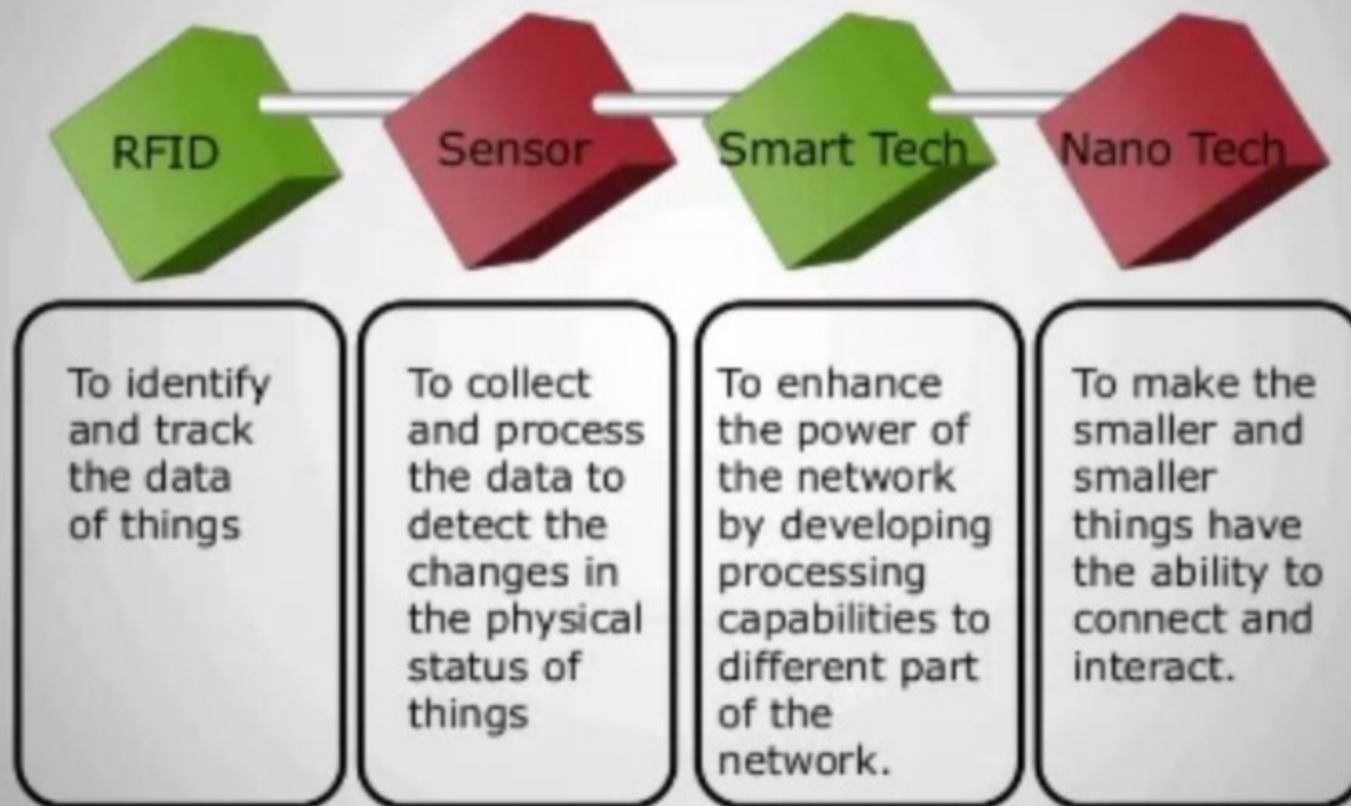
Devices and Sensors are collecting
data everywhere.

- At your home
- In your car
- At the office
- In the manufacturing plant

ACTION

Taking action based on the information and data

- Communicate with another machine (m2m)
- Send a notification (sms, email, text)
- Talk to another system

How IoT Works?

RFID	Sensor	Smart Tech	Nano Tech
To identify and track the data of things	To collect and process the data to detect the changes in the physical status of things	To enhance the power of the network by developing processing capabilities to different part of the network.	To make the smaller and smaller things have the ability to connect and interact.

IOT Application Scenario - Shopping

(2) When shopping in the market, the goods will introduce themselves.

(1) When entering the doors, scanners will identify the tags on her clothing.

(4) When paying for the goods, the microchip of the credit card will communicate with checkout reader.

(3) When moving the goods, the reader will tell the staff to put a new one.