

## Experiment1.2

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### 1. Aim:

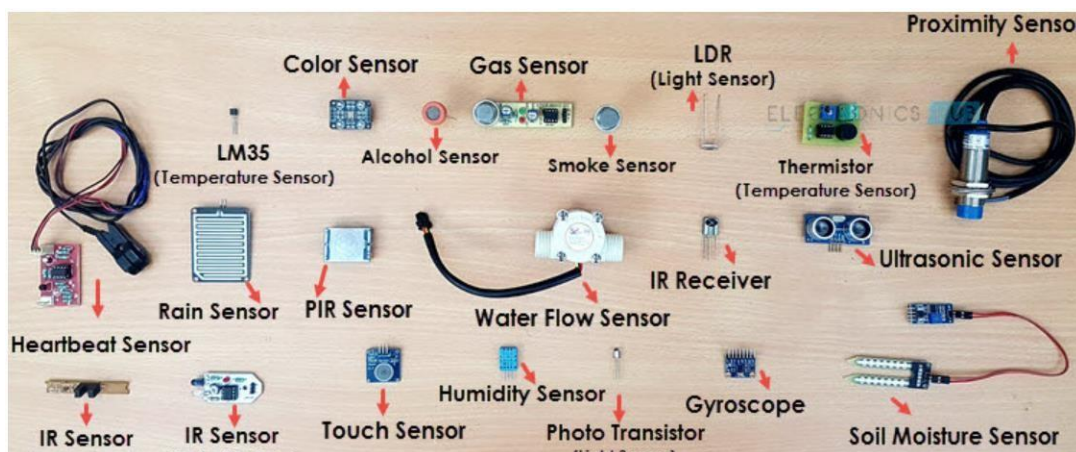
Identification of different sensors used in IoT applications.

### 2. Objective:

1. To study hardwares related to IoT.
2. to understand and identify different sensors used in IoT.

### 3. Script and Output:

The sensors are defined as a machine, module, or a device that detect changes in the environment. The sensors transfer those changes to the electronic devices in the form of a signal. A sensor and electronic devices always work together. The output signal is easily readable by humans. Nowadays, Sensors are used in daily lives. For example, controlling the brightness of the lamp by touching its base, etc. The use of sensors is expanding with new technologies.



## 1. Temperature sensors



A device, used to measure amount of heat energy that allows to detect a physical change in temperature from a particular source and converts the data for a device or user, is known as a Temperature Sensor

## 2. Proximity sensor



A device that detects the presence or absence of a nearby object, or properties of that object, and converts it into signal which can be easily read by user or a simple electronic instrument without getting in contact with them.

## 4. Pressure sensor



A pressure sensor is a device that senses pressure and converts it into an electric signal. Here, the amount depends upon the level of pressure applied.

## 5. Water Quality Sensor



Water quality sensors are used to detect the water quality and Ion monitoring primarily in water distribution systems.

## 6. Chemical sensor



Chemical sensors are applied in several different industries. Their goal is to indicate changes in liquid or to find out air chemical changes.

## 7. Gas sensor



Gas sensors are like the chemical ones, but are specifically used to monitor changes of the air quality and detect the presence of various gases.

## 8. Smoke sensor



A smoke sensor is a device that senses smoke (airborne particulates & gases), and it's level.

## 8. IR sensors



An infrared sensor is a sensor that is used to sense certain characteristics of its surroundings by either emitting or detecting infrared radiation. It is also capable of measuring the heat being emitted by objects.

## 9. Level sensors



A sensor which is used to determine the level or number of fluids, liquids or other substances that flow in an open or closed system is called Level sensor.

## 10. Accelerometer sensors



An accelerometer is a transducer that is used to measure the physical or measurable acceleration experienced by an object due to inertial forces and converts the mechanical motion into an electrical output.