**Assignment - 6**

1. What is IR sensor ?

IR sensor is an Infrared Sensor. There are two types of IR sensors. Passive and Active types.

The Passive IR sensor detects IR light radiating from objects around in its field of view.

The Active IR sensor emits IR light as well as detects the IR light from objects around it, this helps in IR imaging.

1. What is Ultrasonic sensor?

Ultrasonic sensor is a device that sends ultrasonic waves as pulses and detects the echo to determine if there is an object in its proximity. Using the time taken to detect the echo, the distance to the object can also be measured.

1. What is LDR?

LDR is a Light Dependent Resistor also known as a photoresistor. The resistance is inversely proportional to the intensity of light it is subjected to.

1. What is DHT ?

DHT sensor has two parts. A Humidity sensor and Temperature sensor. DHT-11 is the basic sensor. DHT-22 is a more expensive version that has better range and accuracy.

1. What will happen if we supply a voltage of 25V to the Vcc of the Ultrasonic sensor?

Ultrasonic sensor is designed to run at voltages from 3.3V to 5V. Ideal to be used with an Arduino. However, 25V is far beyond it’s upper limit and therefore may cause permanent damage to the sensor.