Answer the following questions and submit it into classroom.

1. What are transducers? Explain with examples. Are you planning to

use any transducers for your coursework? Why?

Answer:

A transducer is an electronic device that converts energy from one form to another. Common examples include microphones, loudspeakers, thermometers, position and pressure sensors, and antenna.

We are planning to use piezo in out coursework which is transducers. It converts electrical charge produced into energy.

2. What do you think about the role of sensors in IoT? Which sensors

are you going to use for your coursework?

Answer:

The main purpose of sensors is to collect data from the surrounding environment. Sensors, or 'things' of the IoT system, form the front end. These are connected directly or indirectly to IoT networks after signal conversion and processing.

We are going to use ultrasonic sensors to measure the water level using t

3. Classify the sensors on the basis of energy conversion and output

signal. Briefly define each type with appropriate examples.

4. Classify the actuators on the basis of output movement. Define

each with examples.