

## Assignment - 1

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Q1) What is the difference b/w sensor & transducer?

### Sensor

- Senses a physical measurement and makes it readable but keeps it in same format
- Eg - Thermistor, motion sensor, pressure switch

### Transducer

- Senses the physical measurement and converts it from one form to another, eg: Non-electrical to electrical -

Microphones, pressure transducer, linear transducer

Q2) What are the components of human body as a feedback control system

- 1) Input - through senses (like touch etc)
- 2) Comparator - brain and eyes etc
- 3) Feedback - sensor (eyes, nose etc)
- 4) Control output - motor action (like picking up an object)

Thus, it can be seen that human body is a feedback control system