ISSM Day4 Pre-class Worksheet

[Instructions: Please provide your answers in the cells shaded in white color.]

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| Your name: APAR GARG |
| Q1. Have you download and look through the ISSM day4 course materials from LumiNUS? |
| Please refer to the first sentence of Slide 32 of ‘4.1 Sense making from sensor data v2.6.pdf’, and fill in the blank “Multimodal sensor data recognition”. |
| Q2.  Multiple sensory data can be combined together to perform challenging sense making task. For example, Apple Watch can automatically detect when you start hand washing using its motion sensors and microphone and intuitively launches a 20-second timer. Your Apple Watch listens for the sound of soap and water running to determine whether or not you are washing your hands. If the watch also senses hand washing motions (rubbing your hands together), it assumes you are washing your hands.  Further readings: https://www.myhealthyapple.com/how-to-use-apple-watch-handwashing-feature/ |
| Please provide an example of *single sensor and multiple measurements*.  (Example: We need to declare temperature twice daily using the same thermometer sensor.) |
| Please provide an example of *multiple sensors and single measurements*.  (Example: When we use smart phone to take photo, multiple camera sensors mounted on the smart phone are used to capture photo at the same time.)  Motion sensors in a car to detect obstacles. |
| Please provide an example of *multiple sensors and multiple measurements*.  (Example: Apple Watch uses both motion sensor and microphone sensor to perform multiple measurement to decide whether we are washing hand or not.)  Acoustic sensor + Biometric sensor for person identification. |