1. Write the class declarations for the following class shown in the UML below. Assume that Sensor is a concrete class.
(i) Sensor
(ii) Temperature Sensor
(iii) Distance Sensor
(iv) Thermocouple Sensor

2. Write the code for the SensingApplication class which only has a main method.

3. In the SensingApplication class, create one instance each of the classes from Question 1.