

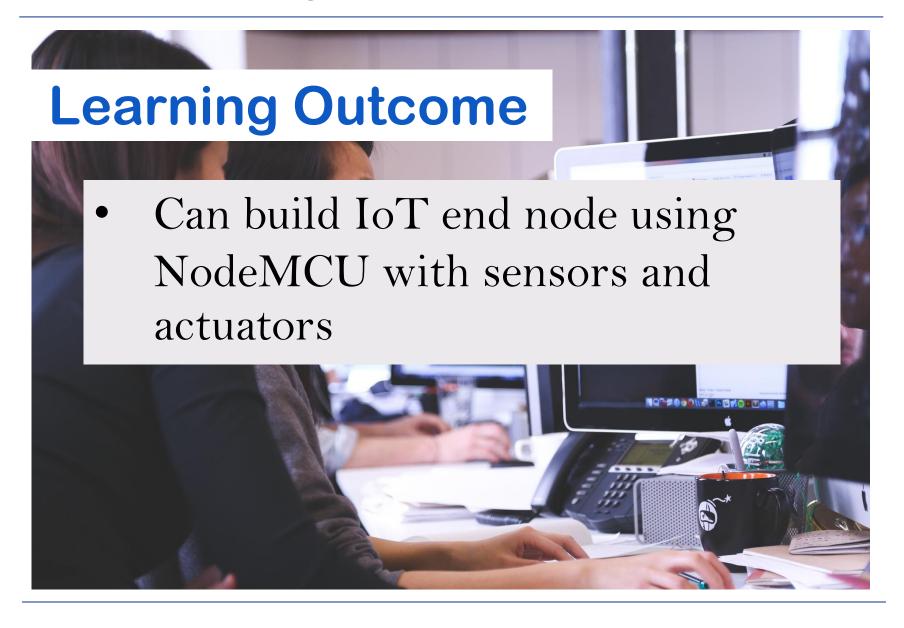
Q-01

# Quiz

## Sensor & Actuator

Semester 1/2563

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### Task (4%)

- Build a weather station using
  - NodeMCU
  - DHT22 (Temp / Humid)
  - BH1750 (Light)
  - OLED Display
  - LED / SPEAKER

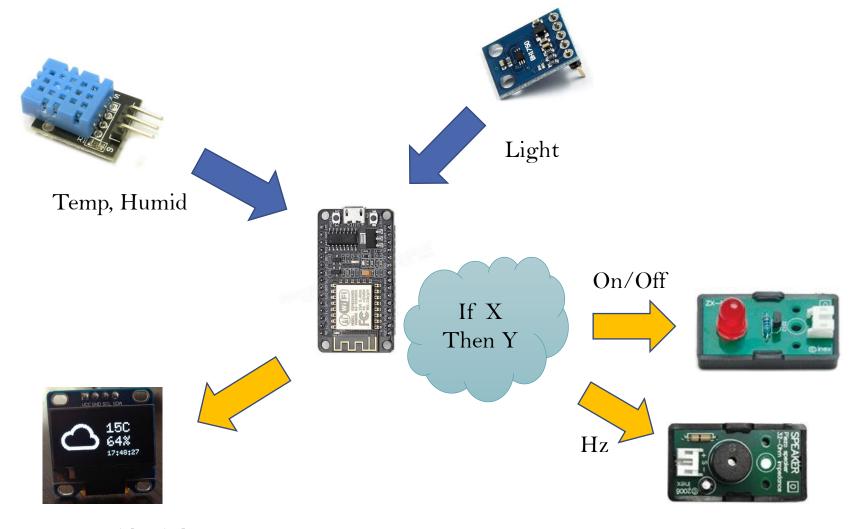
## **Q&A (1%)**

Answer the question or modify the code

#### Required functions

- Display current temperature, humidity, or light level on OLED Display
- Print sensor data to serial monitor
- Alert when temp / humid/ light is over the threshold
  - Play sound / no sound
  - Or turn LED on/off

#### 140-390 Internet of Things



Temp, Humid, Light







TASK A	
Sensor	BH1750
Actuator	Speaker
Condition	If Lux < 50 Then alert with sound Else sound off

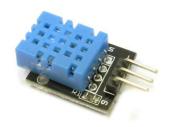






TASK B	
Sensor	BH1750
Actuator	LED
Condition	If Lux < 50 Then LED light ON Else light OFF







TASK C	
Sensor	DHT22
Actuator	Speaker
Condition	If Temp > 26 Then alert with sound Else sound off







TASK D	
Sensor	DHT22
Actuator	LED
Condition	If Temp > 26 Then LED light ON Else LED light OFF







TASK E	
Sensor	DHT22
Actuator	Speaker
Condition	If Humid > 60 Then alert with sound Else sound OFF







TASK F	
Sensor	DHT22
Actuator	LED
Condition	If Humid > 60 Then LED light ON Else LED light OFF