Assignment (Deadline: 7 Feb)

* Connect RPI to IBM cloud
* Publish data
  + Temp value
  + Cpu temperature
    - Using node-red
    - Python
* If temp > 30
  + Turn on led

Publish the CPU temperature data using the message format

**{"d" : {"temp" : <CPU temperature>}}**

**Publish the SenseHAT temperature and humidity data using the message format**

**{"d":{"temperature":<SenseHat temperature>,"humidity":<SenseHat humidity>}}**

## Checklist

**Here is a checklist to help you avoid the most common pitfalls experienced by previous learners:**

* **Are you using the correct command message when sending commands to the Pi? {"screen":"on"} or {"screen":"off"} are the only 2 valid commands. {"d":{"screen":"on"}} is not a valid message and values ON, On, OFF and Off are not valid values.**
* **Are you using the correct colours? Maroon, Green, Black and Silver are the only colours you should set in this assignment**
* **Are you updating the SenseHAT in a single message? Sending multiple messages to build up the display results in the incorrect display being shown for a small amount of time - may look OK, but is not a valid solution**
* **Are you updating the SenseHAT LED display every time a command is received? (Waiting for the next temperature update to update the LED panel is not a valid solution)**
* **Are you updating the SenseHAT LED display every time a new temperature is released by the SenseHAT input node? (not every 5 seconds - every time a new temperature is released. Waiting for the next command to update the LED panel is not a valid solution)**
* **Is the temperature value you are publishing the same, unaltered numeric value as was released by the SenseHAT? (30 or 29 is not the same as 29.5)**
* **Are you publishing the latest temperature value? (some solution are queuing temperature value rather than discarding intermediate values)**