Well done for having a go at completing the tasks! There are many different solutions to the two different tasks, here are just a few examples.

There is never a single correct solution to any coding challenge. If you are alerting the scientist, that is a successful outcome. Below are some possible solutions to the tasks you have gone through.

**FRIDGE ALERT**

There are many ways to alert the scientist that the fridge door has been left open. The code below will make a noise when the light level around the micro:bit is greater than the reading 128. Please note that your light level reading may be a different number! Pressing button A will stop the noise.

```python
forever
    if light level > 128 then
        play melody at tempo 500 (bpm)
    on button A pressed
        stop melody background
```
FLAT FLASK

There are two possible ways to make the micro:bit sound on tilt. Version 1 uses the tilt gesture, and version 2 (more advanced) uses the acceleration input. This version required the micro:bit to be tilted over 90 degrees.

Version 1

This version makes a flat sound no matter how steep the tilt is.

a)  

b)
Version 2

This version makes a varying sound depending on how steep the tilt is.

Acceleration (the amount of tilt) ranges from -1024 (when tilted left), to +1024 (when tilted right). The sound tone (measured in hertz) can only be a positive number, so when using the acceleration, the variable acceleration value requires + 1024, so a sound is played when tilted both left and right.