

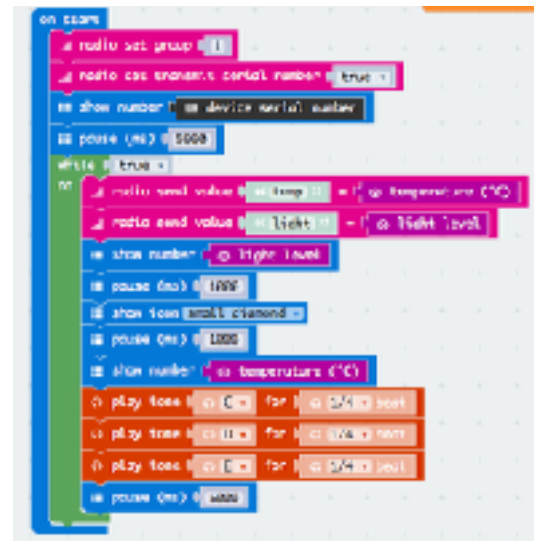
Activity 4—microbits talking



The pet also prints the information on its display, as two numbers, separated by a diamond picture—the first is light level 0-dark, 255-bright, the second is temperature (degrees C).

Each line of the hub display is a separate reading t is time, s is a serial no, n is name and v is value.

Every few seconds the *pet* microbit sends some information to the *hub* microbit over its wireless network. Here's the program it uses (looks a bit like Scratch blocks). At the receiving end at the moment the hub is just printing it.



```
{"t":16195,"s":-1063250292,"n":"temp","v":25}
{"t":16196,"s":-1063250292,"n":"light","v":255}
{"t":48026,"s":-1063250292,"n":"temp","v":25}
{"t":48027,"s":-1063250292,"n":"light","v":15}
```

A few things to try

Subtract the t value of one temperature reading from the next. Try this a few times, is it always the same?

Do the messages always get through?

Try moving the pet microbit to different places, can you see what the maximum range is before the hub loses contact? (count your paces)