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Thingspeak channel ID : 1725849

Thingspeak channel link : <https://thingspeak.com/channels/1725849>

In our project we defined just on event "Timer.fired()", other than the Boot event. When the timer is fired, a step of the division is computed to find which is the next led to toggle. In order to keep information about the current division-step and of the led status, we used two variables declared outside the event Timer.fired():

```
uint32_t quotient = PCODE;  
uint8_t ledStatus[3] = {0, 0, 0};
```

We decided to use an array of size three for the leds status because the lib command Leds.get() does not work. After having computed a step of the division, one of the three led is toggled, based on the remainder of the division. Thereafter, the data structure are updated and the leds bitmask is printed:

```
ledStatus[remainder] = (ledStatus[remainder] == 0 ? 1 : 0);  
printf("Ledmask: %d%d%d\n", ledStatus[0], ledStatus[1], ledStatus[2]);
```

During the simulation phase in cooja, we used a server socket on port 60001 to allow node red to fetch the data printed using the "printf" function.

In fact, in the node-red flow we put:

- one TCP node to connect to the cooja server;
- one function in order to parse the received leds bitmask for the status;
- one mqtt function to publish the results on the mqtt channel.