

Exercises/Report

Include the following in your lab report

1. If possible, include screen shots of your service working.
2. Lessons learned
3. Issues encountered and how you resolved them.
4. Final version of the code you created (or a link to an online repository)
5. We used the `hciconfig` command in this lab. Investigate and explain how this command could be used to turn the Raspberry Pi into a broadcast-only BLE device.
6. Explain how the `hcidtool` command can be used to advertise data.

Optional:

1. Include a `Light Switch` characteristic in the `SmartLight` service that turns the LED Matrix on and off. You should consider the following:
The light has two states: `on` and `off`. If the state is set to `off`, the LED matrix should be off. If the state is `on`, the LED matrix should be set to the `value` of the light colour characteristic (`sense.clear(value[0],value[1],value[2])`).