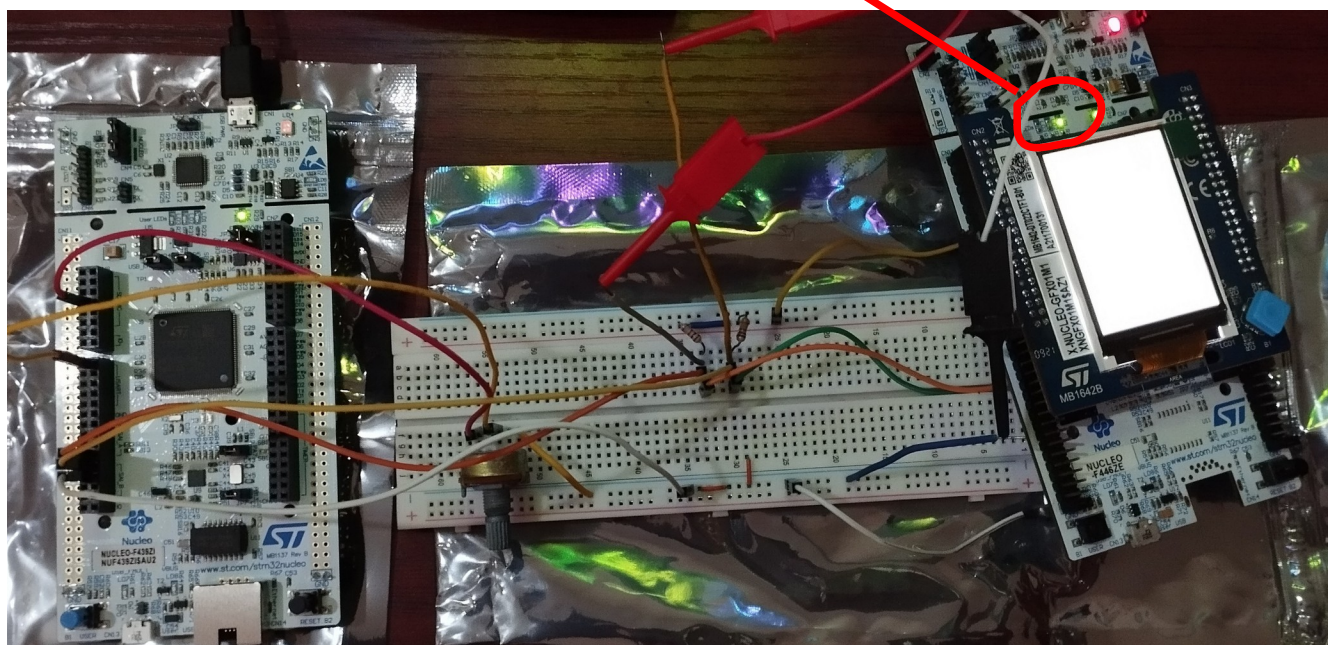
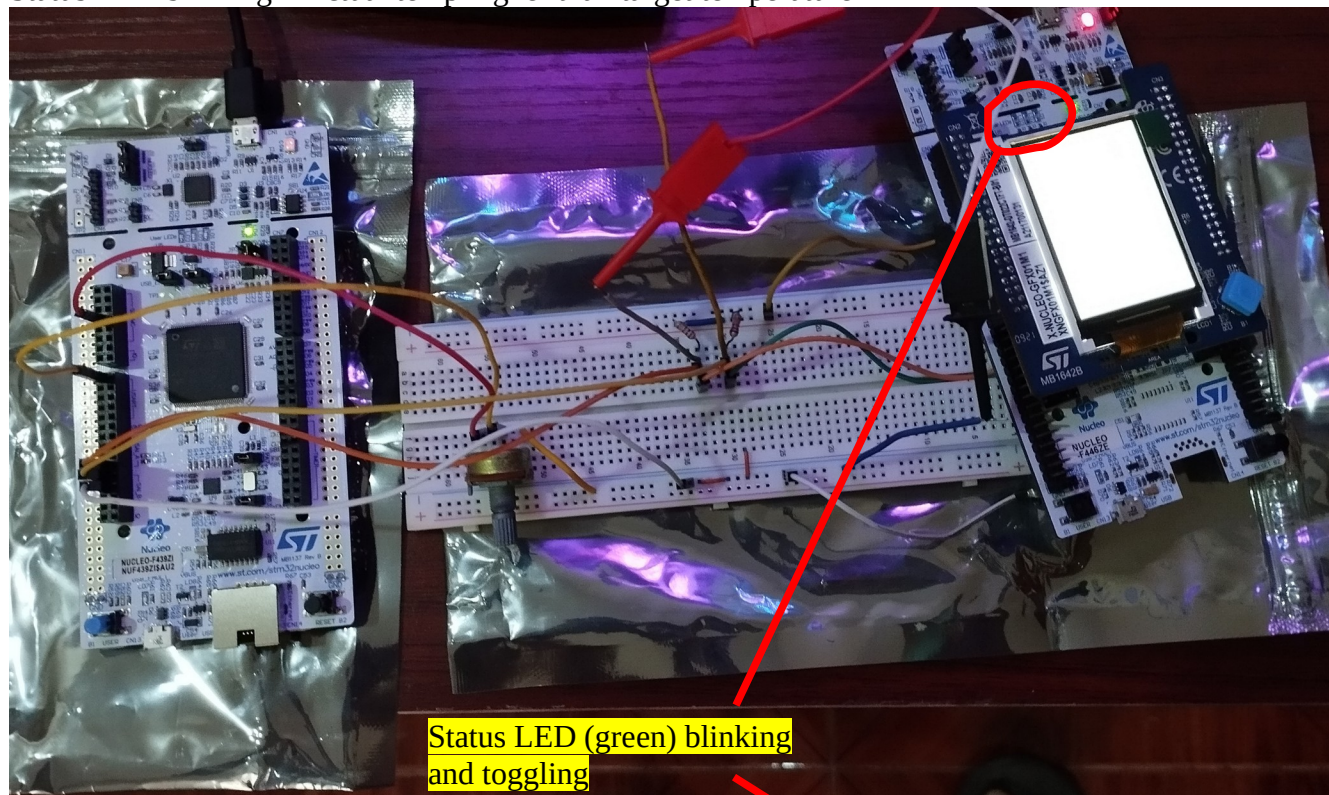


Status LED blinking – Actual temp higher than target temperature



```
COM3 - PuTTY
Actual(degC) : 22.3; Target(degC) : 22.5; Heater: ON
Actual(degC) : 22.3; Target(degC) : 22.5; Heater: ON
Actual(degC) : 22.3; Target(degC) : 22.5; Heater: ON
Actual(degC) : 22.3; Target(degC) : 22.5; Heater: ON
Actual(degC) : 22.3; Target(degC) : 22.5; Heater: ON
Actual(degC) : 22.4; Target(degC) : 22.5; Heater: ON
Actual(degC) : 22.2; Target(degC) : 22.5; Heater: ON
Actual(degC) : 22.3; Target(degC) : 22.5; Heater: ON
Actual(degC) : 22.3; Target(degC) : 22.5; Heater: ON
Actual(degC) : 22.3; Target(degC) : 22.5; Heater: ON
Actual(degC) : 22.3; Target(degC) : 22.5; Heater: ON
Actual(degC) : 22.3; Target(degC) : 22.5; Heater: ON
Actual(degC) : 22.3; Target(degC) : 22.5; Heater: ON
Actual(degC) : 22.3; Target(degC) : 22.5; Heater: ON
Actual(degC) : 22.3; Target(degC) : 22.5; Heater: ON
Actual(degC) : 22.3; Target(degC) : 22.5; Heater: ON
Actual(degC) : 22.3; Target(degC) : 22.5; Heater: ON
Actual(degC) : 22.3; Target(degC) : 22.5; Heater: ON
Actual(degC) : 22.3; Target(degC) : 22.5; Heater: ON
Actual(degC) : 22.3; Target(degC) : 22.5; Heater: ON
Actual(degC) : 22.3; Target(degC) : 22.5; Heater: ON
Actual(degC) : 22.3; Target(degC) : 20.0; Heater: OFF
Actual(degC) : 22.3; Target(degC) : 20.0; Heater: OFF
Actual(degC) : 22.3; Target(degC) : 20.0; Heater: OFF
Actual(degC) : 22.3; Target(degC) : 20.0; Heater: OFF
Actual(degC) : 22.3; Target(degC) : 20.0; Heater: OFF
```

Actual temp is at 22.3 C and Target unchanged at 20.0 C, so heater is off.

Status LED (green) steady and heater is ON (blue LED lit for visual verification)

Up and Down buttons for raising the target temp

Blue LED lit for visual verification

```
COM3 - PuTTY
Actual(degC) : 22.3; Target(degC) : 22.5; Heater: ON
Actual(degC) : 22.3; Target(degC) : 22.5; Heater: ON
Actual(degC) : 22.3; Target(degC) : 22.5; Heater: ON
Actual(degC) : 22.3; Target(degC) : 22.5; Heater: ON
Actual(degC) : 22.3; Target(degC) : 22.5; Heater: ON
Actual(degC) : 22.4; Target(degC) : 22.5; Heater: ON
Actual(degC) : 22.2; Target(degC) : 22.5; Heater: ON
Actual(degC) : 22.3; Target(degC) : 22.5; Heater: ON
Actual(degC) : 22.3; Target(degC) : 22.5; Heater: ON
Actual(degC) : 22.3; Target(degC) : 22.5; Heater: ON
Actual(degC) : 22.3; Target(degC) : 22.5; Heater: ON
Actual(degC) : 22.3; Target(degC) : 22.5; Heater: ON
Actual(degC) : 22.3; Target(degC) : 22.5; Heater: ON
Actual(degC) : 22.3; Target(degC) : 22.5; Heater: ON
Actual(degC) : 22.3; Target(degC) : 22.5; Heater: ON
Actual(degC) : 22.3; Target(degC) : 22.5; Heater: ON
Actual(degC) : 22.3; Target(degC) : 22.5; Heater: ON
Actual(degC) : 22.3; Target(degC) : 22.5; Heater: ON
Actual(degC) : 22.3; Target(degC) : 22.5; Heater: ON
Actual(degC) : 22.3; Target(degC) : 20.0; Heater: OFF
Actual(degC) : 22.3; Target(degC) : 20.0; Heater: OFF
Actual(degC) : 22.3; Target(degC) : 20.0; Heater: OFF
Actual(degC) : 22.3; Target(degC) : 20.0; Heater: OFF
Actual(degC) : 22.3; Target(degC) : 20.0; Heater: OFF
Actual(degC) : 22.3; Target(degC) : 20.0; Heater: OFF
Actual(degC) : 22.3; Target(degC) : 22.5; Heater: ON
Actual(degC) : 22.3; Target(degC) : 22.5; Heater: ON
```

Every button press increments or decrements target temp by 0.5 degC. Pressing Up 5 times made the target temp higher than actual, triggering the heater control.

Status LED (green) blinks and
heater is OFF (blue LED off)

Potentiometer in the MCU
simulating I2C temp sensor –

```
COM3 - PUTTY
Actual(degC) : 22.3 Target(degC) : 22.5 Heater: ON
Actual(degC) : 22.3 Target(degC) : 22.5 Heater: ON
Actual(degC) : 22.3 Target(degC) : 22.5 Heater: ON
Actual(degC) : 22.3 Target(degC) : 22.5 Heater: ON
Actual(degC) : 22.3 Target(degC) : 22.5 Heater: ON
Actual(degC) : 22.4 Target(degC) : 22.5 Heater: ON
Actual(degC) : 22.2 Target(degC) : 22.5 Heater: ON
Actual(degC) : 22.3 Target(degC) : 22.5 Heater: ON
Actual(degC) : 22.3 Target(degC) : 22.5 Heater: ON
Actual(degC) : 22.3 Target(degC) : 22.5 Heater: ON
Actual(degC) : 22.3 Target(degC) : 22.5 Heater: ON
Actual(degC) : 22.3 Target(degC) : 22.5 Heater: ON
Actual(degC) : 22.3 Target(degC) : 22.5 Heater: ON
Actual(degC) : 22.3 Target(degC) : 22.5 Heater: ON
Actual(degC) : 22.3 Target(degC) : 22.5 Heater: ON
Actual(degC) : 22.3 Target(degC) : 22.5 Heater: ON
Actual(degC) : 22.3 Target(degC) : 22.5 Heater: ON
Actual(degC) : 22.3 Target(degC) : 22.5 Heater: ON
Actual(degC) : 22.3 Target(degC) : 20.0 Heater: OFF
Actual(degC) : 22.3 Target(degC) : 20.0 Heater: OFF
Actual(degC) : 22.3 Target(degC) : 20.0 Heater: OFF
Actual(degC) : 22.3 Target(degC) : 20.0 Heater: OFF
Actual(degC) : 22.3 Target(degC) : 20.0 Heater: OFF
Actual(degC) : 22.3 Target(degC) : 20.0 Heater: OFF
Actual(degC) : 22.3 Target(degC) : 20.0 Heater: OFF
Actual(degC) : 22.3 Target(degC) : 22.5 Heater: ON
Actual(degC) : 22.3 Target(degC) : 22.5 Heater: ON
Actual(degC) : 36.0 Target(degC) : 22.5 Heater: OFF
Actual(degC) : 27.2 Target(degC) : 22.5 Heater: OFF
```