

ReflectionLog: Hot or cold?

Youdis

```
public static void main(String[] args) throws Exception{

    //Create
    TemperatureSensor temperatureSensor = new TemperatureSensor();
    DigitalOutput greenLED = new DigitalOutput();
    DigitalOutput redLED = new DigitalOutput();

    //Address
    greenLED.setHubPort(4);
    greenLED.setIsHubPortDevice(true);
    redLED.setHubPort(1);
    redLED.setIsHubPortDevice(true);

    //Open
    greenLED.open(1000);
    redLED.open(1000);
    temperatureSensor.open(1000);
```

Creating a TemperatureSensor and 2 DigitalOutput objects then setting the DigitalOutput objects address to their corresponding physical LED light. Then opening all three objects connected to the physical object they correspond to.

```
while (true) {

    System.out.println(" Temperature: " + temperatureSensor.getTemperature() + " °C");
    Thread.sleep(350);

    if (24 > temperatureSensor.getTemperature() && 20 < temperatureSensor.getTemperature() ) {
        greenLED.setState(true);
        redLED.setState(false);
    }

    else {
        redLED.setState(true);
        greenLED.setState(false);
    }

}
```

While loop which repeatedly checks the temperature the sensor records and displays it. If the temperature is between 20 and 24 degrees celsius then the green LED will light up and stay on until the temperature exceeds the range. If the range is exited then the red light will light up and stay on while the green one turns off. If the temperature reaches the range again then the red LED will turn off and the green one will turn on.