HotOrCold Phidgets ReflectionLog

First rendition of HotOrCold.java:

```
import com.phidget22.DigitalOutput;
import com.phidget22.TemperatureSensor;

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

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

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

        temperatureSensor.open(1000);
        greenLED.open(1000);
        redLED.open(1000);

        while(true){
            System.out.println(" Temperature: " + temperatureSensor.getTemperature() + " °C" );
            if(temperatureSensor.getTemperature() > 20 && temperatureSensor.getTemperature() < 24) {

            } else {

            }

            Thread.sleep(150);
        }
    }

}
```

In this first rendition I created objects for each Phidget element I would use and connected them to the Phidgets device. Then, within a while loop I printed the current temperature, and created an if-else statement. The if-else statement would have the condition that the current temperature would return greater than 20, and less than 24.

Final rendition of HotOrCold.java:

```
import com.phidget22.DigitalOutput;
import com.phidget22.TemperatureSensor;

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

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

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

        temperatureSensor.open(1000);
        greenLED.open(1000);
        redLED.open(1000);

        while(true){
            System.out.println(" Temperature: " + temperatureSensor.getTemperature() + " °C" );
            if(temperatureSensor.getTemperature() > 20 && temperatureSensor.getTemperature() < 24) {
                redLED.setState(false);
                greenLED.setState(true);
            } else {
                greenLED.setState(false);
                redLED.setState(true);
            }

            Thread.sleep(150);
        }
    }

}
```

In the final rendition I added the LED functionality to the if-else statement. Now when the condition is met the red LED is turned off, and the green LED is turned on. Whereas if the condition is not met the red LED is turned on, and the green LED is turned off.