

## **PRACTICAL -4**

**Aim: - Arduino programming Temperature sensor and Send temperature data application via Bluetooth.**

### **Experiment Part -I ( On Tinker card)**

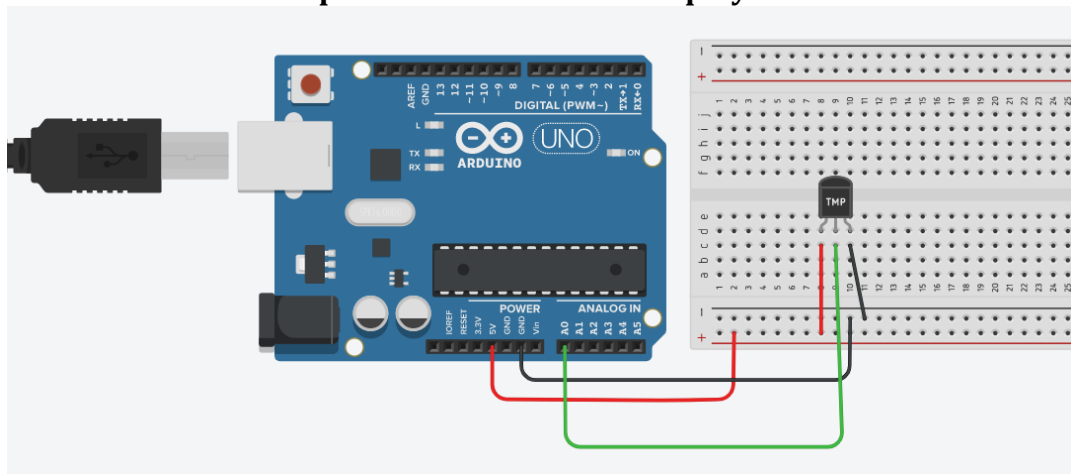
1. Read the current temperature of room and display it on serial monitor
2. Read the current temperature of room and turn on RGB Led with specific colour according to current temperature value
  - a. If temperature more than 50 C° then turn on RGB LED with RED colour
  - b. If temperature between 0 C° to 50 C° then turn on RGB LED with GREEN colour
  - c. If temperature less than 0 C° then turn on RGB LED with BLUE colour

### **Experiment Part -II ( On Arduino Board)**

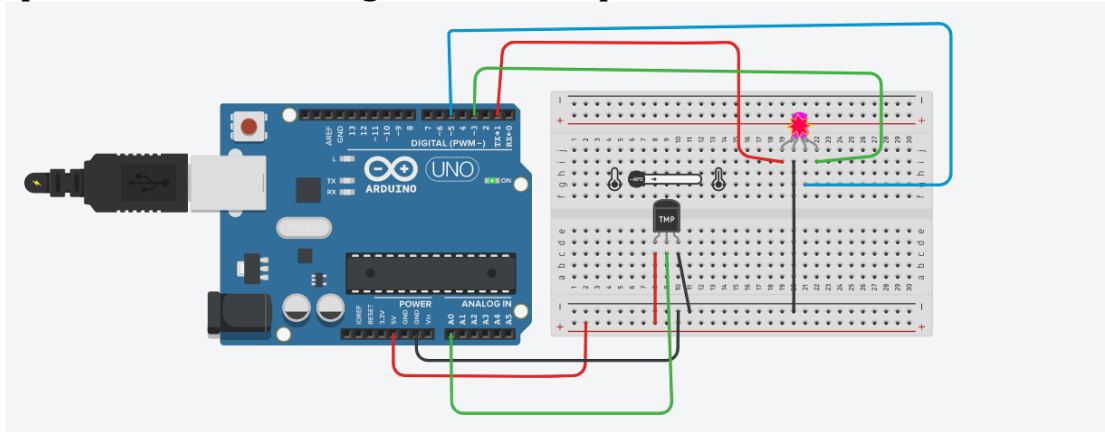
1. Read the current temperature of room and display it on serial monitor ( use DHT11 Sensor)
2. Read the current temperature of room and display on mobile Application via Bluetooth(Bluetooth Terminal HC-05 or Arduino Bluetooth controller Android app).

### **Connection for Experiment Part -I**

1. Read the current temperature of room and display it on serial monitor

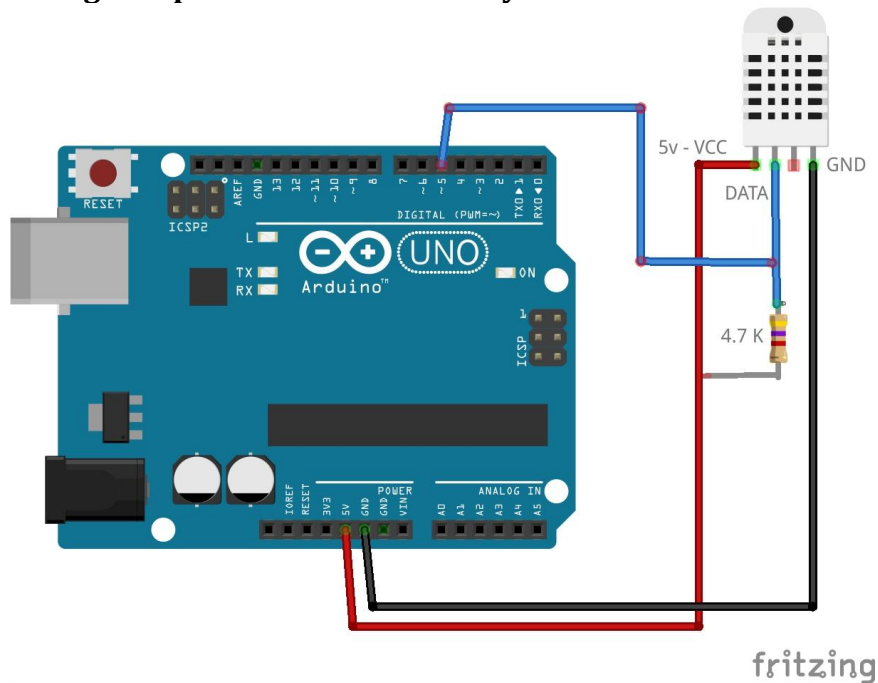


2. Read the current temperature of room and turn on RGB Led with specific colour according to current temperature value



### Connection for Experiment Part -II

1. Reading Temperature and Humanity



2. Bluetooth connection

