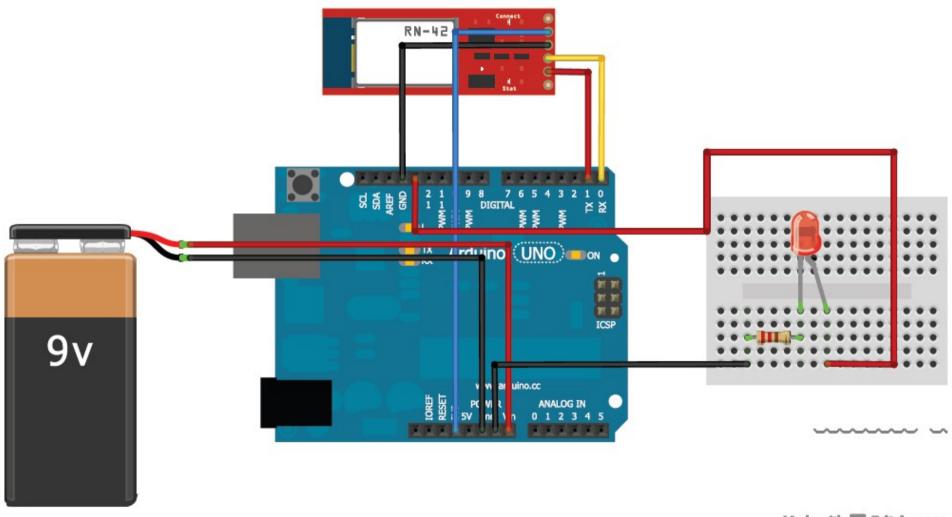
Wireless Communication with Arduino

- 1. Create the circuit shown on last page
- 2. Disconnect battery and the TX and RX pins from the arduino
- 3. Open the Arduino IDE program on your computer
- 4. Copy and paste the code below into the Arduino IDE
- 5. Upload code to arduino.
- 6. Unplug Arduino from computer, reconnect battery and TX and RX pins
- 7. Load up BlueTerm application on an android device
- 8. Click menu within the application and connect, select the bluetooth device available
- 9. Type 'o' or 'f' to turn LED off or on



```
Program Code (Copy and Paste the following)
             // variable to receive data from the serial port
char val:
int LEDPin = 13; // LED connected to pin 2 (on-board LED)
void setup()
 pinMode(LEDPin, OUTPUT); // pin 13 (on-board LED) as OUTPUT
 Serial.begin(9600);
                       // start serial communication at 115200bps
void loop() {
 if( Serial.available() )
                         // if data is available to read
     val = Serial.read();
     if(val == 'o')
          digitalWrite(LEDPin, HIGH);
          Serial.println("LED ON!");
     if( val == 'f' ){
          digitalWrite(LEDPin, LOW);
          Serial.println("LED OFF!");
```

Circuit Diagram



Made with Fritzing.org