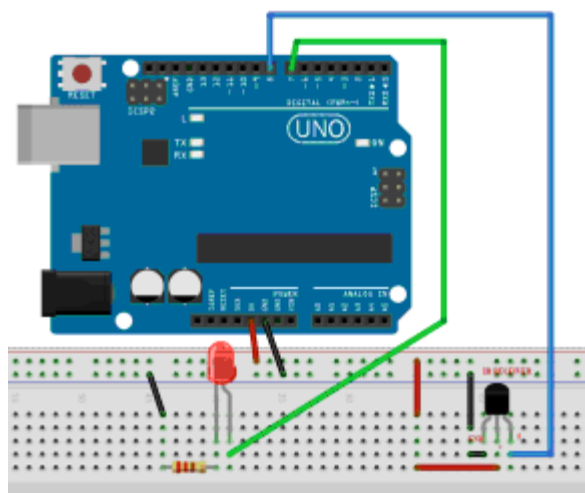GND ← S → D8

5V

IR receiver sensor can get signal from infrared sender device such as remote controller of TV,DVD. In this project, we will use a TV remote controller to send IR signal to IR receiver. The first push of the TV remote button will light up the LED in the receiver circuit, the second push will turn off the LED.

CODE:

```
/* IR remote receiver test project
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 */
#include <IRremote.h> //adds the library code to the sketch
const int irReceiverPin = 8; //receiver module S pin is connected to arduino D8
const int ledPin = 7;
```

```
IRrecv irrecv(irReceiverPin);
decode_results decodedSignal;

void setup()
{
    pinMode(ledPin, OUTPUT);
    irrecv.enableIRIn();
}
boolean lightState = false;
unsigned long last = millis();

void loop()
{
    if (irrecv.decode(&decodedSignal) == true) //this is true if a message has been received
    {
        if (millis() - last > 250) {
            //has it been 1/4 sec since last message
            lightState = !lightState;
            //toggle the LED
            digitalWrite(ledPin, lightState);
        }
        last = millis();
        irrecv.resume();
        // watch out for another message
    }
}
```