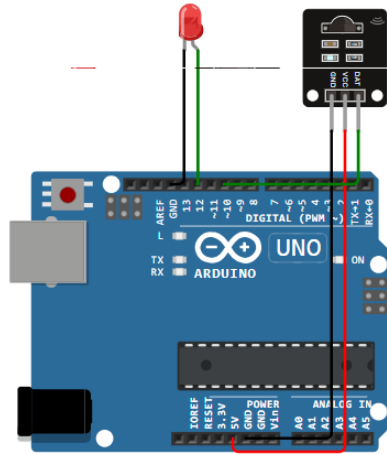# write Arduino code and interfacing IR sensor with Arduino.

Arduino Code

```
int ledPin = 12;        // choose pin for the LED

int inputPin = 10;      // choose input pin (for Infrared sensor)

int val = 0;            // variable for reading the pin status

void setup() {

 pinMode(ledPin, OUTPUT);      // declare LED as output

 pinMode(inputPin, INPUT);     // declare Infrared sensor as input

}

void loop() {

 val = digitalRead(inputPin);      // read input value

 if (val == HIGH) {

// check if the input is HIGH

 digitalWrite(ledPin, LOW);      // turn LED OFF

 }

 else

 {

 digitalWrite(ledPin, HIGH);      // turn LED ON

 }

}
```