```
This example reads from the MLX90614 and prints out ambient and object
temperatures every half-second or so. Open the serial monitor and set the
baud rate to 9600.
Hardware Hookup (if you're not using the eval board):
MLX90614 ----- Arduino
VDD ----- 3.3V
VSS ----- GND
SDA ----- SDA (A4 on older boards)
SCL ----- SCL (A5 on older boards)
An LED can be attached to pin 8 to monitor for any read errors.
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https://github.com/sparkfun/SparkFun MLX90614 Arduino Library
Development environment specifics:
Arduino 1.6.5
SparkFun IR Thermometer Evaluation Board - MLX90614
*************************************
#include <Wire.h> // I2C library, required for MLX90614
#include <SparkFunMLX90614.h> // SparkFunMLX90614 Arduino library
IRTherm therm1; // Create an IRTherm object to interact with throughout
IRTherm therm2;
IRTherm therm3;
const byte LED PIN = 8; // Optional LED attached to pin 8 (active low)
void setup()
 Serial.begin(9600); // Initialize Serial to log output
 therm1.begin(0x0A); // Initialize thermal IR sensor
 therm2.begin (0x0B);
 therm3.begin(0x0C);
 therm1.setUnit(TEMP C); // Set the library's units to Farenheit
therm2.setUnit(TEMP C);
therm3.setUnit(TEMP C);
 // Alternatively, TEMP F can be replaced with TEMP C for Celsius or
 // TEMP K for Kelvin.
```

Serial output example for the MLX90614 Infrared Thermometer

MLX90614 Serial Demo.ino

```
pinMode(LED BUILTIN, OUTPUT); // LED pin as output
 setLED(LOW); // LED OFF
}
void loop()
 digitalWrite(LED BUILTIN, HIGH); //LED on
 // Call therm.read() to read object and ambient temperatures from the sensor.
 if (therm1.read()) // On success, read() will return 1, on fail 0.
   // Use the object() and ambient() functions to grab the object and ambient
 // temperatures.
 // They'll be floats, calculated out to the unit you set with setUnit().
  Serial.print(String(therm1.object(), 2));
   Serial.print(",");
 if(therm2.read()){
  Serial.print(String(therm2.object(), 2));
   Serial.print(",");
 if(therm3.read()){
  Serial.print(String(therm3.object(), 2));
   Serial.print(",");
 Serial.print("\n");
 digitalWrite(LED BUILTIN, LOW);
 delay(100);
void setLED(bool on)
 if (on)
   digitalWrite(LED PIN, LOW);
 else
   digitalWrite(LED PIN, HIGH);
}
```