

```
/*
 * File:      readTemperature.ino
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freetronics. com)
 * License:  GPLv3
 *
 * For more information see www.freetronics.com/irtemp
 *
 */
#include "IRTemp.h"
int sensorpins[3][3] = {
{2, 3, 4},
{5, 6, 7},
{8, 9, 10}
};
int i = 0;
byte PIN_ACQUIRE;
byte PIN_CLOCK ;
byte PIN_DATA ;
static const TempUnit SCALE=FAHRENHEIT;

void setup(void) {
  Serial.begin(9600);
}

void loop(void) {
for(i=0;i<2;i=i+1){
PIN_DATA = sensorpins[i][0];
PIN_CLOCK = sensorpins[i][1];
PIN_ACQUIRE = sensorpins[i][2];

IRTemp irTemp(PIN_ACQUIRE, PIN_CLOCK, PIN_DATA);

float irTemperature = irTemp.getIRTemperature(SCALE);
printTemperature("IR", irTemperature,i);
}
```

```
delay(500);
    float ambientTemperature = irTemp.getAmbientTemperature(SCALE);
    printTemperature("Ambient", ambientTemperature,i);

delay(1000);
}

}

void printTemperature(
    char *type,
    float temperature,int i) {

Serial.print(type);
Serial.print(",");
Serial.print(i);
Serial.print(",");

if (isnan(temperature)) {
    Serial.println("Failed");
}
else {
    Serial.println(temperature);
}
}
```