```cpp
#include <Adafruit_MLX90614.h>

#include <Wire.h>


Adafruit_MLX90614 mlx = Adafruit_MLX90614();


int potValue;

int potPin = A1;

bool passedCriteria;

float currentValueIR;

int receivePin = A0;


void setup() {

Serial.begin(9600);

pinMode(potPin, INPUT);

Wire.begin();

passedCriteria = false;

while (!Serial);

if (!mlx.begin(0x5A)) { // adress of the sensor.

Serial.println("Error connecting to MLX sensor. Check wiring.");

while (1);



};

}




void loop() {
```

```
//Pressure plate readings and print

int sensorValue = analogRead(receivePin); // read the input on analog pin 0:

Serial.print(sensorValue); //print sensorValue:

Serial.print(',');




// Ambient temperature readings and print

Serial.print(mlx.readAmbientTempC());

Serial.print(',');




// Object temperature readings and print

Serial.print(mlx.readObjectTempC());

currentValueIR = mlx.readObjectTempC();

Serial.println(',');




char incomingLetter = Serial.read();

if(incomingLetter == 'H'){

passedCriteria = true;




}




char incomingLetterTWO = Serial.read();

if(incomingLetter == 'S'){

passedCriteria = false;




}
```

```
// if(sensorValue > 12 && currentValueIR > 28){
// passedCriteria = true;
// } else {
// passedCriteria = false;
// }




if(passedCriteria){
digitalWrite(13, HIGH);
delay(100); // wait for a second
digitalWrite(13, LOW); // turn the LED off by making the voltage LOW
delay(100); // wait for a second

}



delay(500);

}
```