

File: D:\Autonomous\autonomous-includes\multiplexer.h

```
/*
 * Include some necessary files
 */
#include "hitechnic-sensormux.h"
#include "lego-light.h"
#include "hitechnic-irseeker-v2.h"
#include "hitechnic-touchmux.h"
#include "hitechnic-gyro.h"

const tMUXSensor irLeft = msensor_S2_1;
const tMUXSensor irRight = msensor_S2_2;
const tMUXSensor lightSenseLeft = msensor_S2_3;
const tMUXSensor lightSenseRight = msensor_S2_4;

int rawLightLeft;
int rawLightRight;
int irStrengthLeft;
int irStrengthRight;

int dummy;

/*
 * Constantly update the variables with the sensor values
 */
task getSmux()
{
    LSsetActive(lightSenseLeft);
    LSsetActive(lightSenseRight);
    HTGYROstartCal(sGyro);
    writeDebugStreamLine("Multiplexer setup ready");

    while (true){
        rawLightLeft = LSvalRaw(lightSenseLeft);
        rawLightRight = LSvalRaw(lightSenseRight);

        if(!HTIRS2readEnhanced(irLeft, dummy, irStrengthLeft)){
            writeDebugStreamLine("Something's wrong with the IR");
        }
        if(!HTIRS2readEnhanced(irRight, dummy, irStrengthRight)){
            writeDebugStreamLine("Something's wrong with the IR");
        }
    }
}

// CONSTANTS
// Left IR seeker address
// Right IR seeker address
// Left light sensor address
// Right light sensor address
// SENSOR VALUES
// Left IR seeker value
// Right IR seeker value
// Left light sensor value
// Right light sensor value

// Dummy variable

// Turn the light sensors on to show that we're working

// Print a "ready" message

// Set all the variables to the sensor readings

// If the function returns false:
// Let the operator know that something is wrong
```

