RTC

/\*this will make an LED connected to GPIO 5 flash on alarm condition\*

\*once a century on December 12 at 12:12:12\*/

#include"I2CDevice.h"

#include<linux/i2c.h>

#include<linux/i2c-dev.h>

#include <DS3231.h>

#include <stdio.h>

#include "leds.h"

#include <time.h>

#include<iostream>

#include<fstream>

#include<string>

#include<unistd.h>

#define GPIO\_NUMBER “5”

#define GPIO5\_PATH "/sys/class/gpio/gpio5/"

#define GPIO\_SYSFS "/sys/class/gpio/"

void writeGPIO(char filename[], char value[])

{

FILE\* fp;

fp = fopen(filename, "w+");

fprintf(fp, "%s", value);

fclose(fp);

}

using namespace std;

int main()

{

date\_d now=date (0);

time\_t now =time (0);

int h1=tm\_hour; /\*For hours\*/

int m1=tm\_min; /\*For minutes\*/

int s1=tm\_sec; /\*For seconds\*/

int d1=date\_year; /\*For year\*/

int d2=date\_month; /\*For month\*/

int d3=date\_day; /\*For day\*/

if h1 =12, m1=12, s1=12, d1 = 12, d2= 12, d3=12;

{

cd /sys/class/gpio

ls

echo 5 > export

ls

cd gpio5

ls

echo out > direction

echo 1 > value

cat direction

writeGPIO(GPIO\_SYSFS "export", GPIO\_NUMBER);

usleep(5000000); /\*delay for 5000ms\*/

writeGPIO(GPIO5\_PATH "direction", "out");

{

else continue;

writeGPIO(GPIO5\_PATH "value", "0");

}

}

}

return 0;

}