//including the library necessary to operate accelerometer

#include <AcceleroMMA7361.h>

//creates accelerometer "object"

AcceleroMMA7361 accelero;

//variables that we will be storing data in

int x;

int y;

int z;

// These booleans will later be designated for the accelerometer

//conditions necessary for the corresponding movement

bool Forward;

bool Right;

bool Left;

//initializes our program

void setup()

{

 //pinMode(LED\_PIN, OUTPUT);

 pinMode(8, OUTPUT);

 pinMode(9, OUTPUT);

 pinMode(10, OUTPUT);

 //sleepPin, selfTestPin, zeroGPin, gSelectPin, xPin, yPin, zPin

 //functions depending on which version I am using

 accelero.begin(3, 12, 5, 4, A0, A1, A2);

 //sets reference voltage for our ADC to 5 V

 accelero.setARefVoltage(5);

 accelero.setSensitivity(HIGH); //sets the sensitivity to +/-6G

 accelero.calibrate(); //calibrates the accelerometer

}

//program runs indefinitely until you unplug the Arduino

void loop()

{

 //gets the value for the x, y, and z axis as reported by our

 //the Arduino's ADC

 x = accelero.getXRaw();

 y = accelero.getYRaw();

 z = accelero.getZRaw();

 //Booleans assigned here

 Forward = x < 310 && y > 310 && y < 370 && z < 480;

 Left = y < 310 && x > 310 && x < 370 && z < 480;

 Right = y > 370 && x > 310 && x < 370 && z < 480;

 //forward

 if (Forward) {

 digitalWrite(8, HIGH);

 } else {

 digitalWrite(8, LOW);

 }

 //left

 if (Left) {

 digitalWrite(9, HIGH);

 } else {

 digitalWrite(9, LOW);

 }

 //right

 if (Right) {

 digitalWrite(10, HIGH);

 } else {

 digitalWrite(10, LOW);

 }

 delay(10);

 }