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/*

Arduino Project. LOC

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*/

#include // Must include Wire library for I2C

#include "SparkFun_MMA8452Q.h" // Click here to get the library:http://librarymanager/All#SparkFun_MMA8452Q

MMA8452Q accel; // create instance of the MMA8452 class /* Arduino Project. LOC



int a = 2; //define and iniciate variables. This is the motors pin.

int b = 3;

void setup() {

    pinMode(a, OUTPUT); //Define vibrating motors as outputs.

    pinMode(b, OUTPUT); Serial.begin(9600); //Comunication channel to view the sensor's lecture.

    Serial.println("MMA8452Q Orientation Test Code!");

    Wire.begin();

    if (accel.begin() == false) { //Checking if the accelerometer in on.

        Serial.println("Not Connected. Please check connections and read the hookup guide.");

        while (1);

        }

        }

void loop() {

    if (accel.available()) { // Wait for new data from the accelerometer
```

```
    // Orientation of board (Right, Left, Down, Up)

    if (accel.isRight() == true) { //When the accelerometer is titled to the right, the
    right motor vibrates

        digitalWrite(a, HIGH);

        digitalWrite(b, LOW);

        Serial.println("Right");

    }

    if (accel.isLeft() == true) { //When the accelerometer is titled to the left, the left
    motor vibrates

        Serial.println("Left");

        digitalWrite(a, LOW);

        digitalWrite(b, HIGH);

    }

    else {

        digitalWrite(a, LOW); //When the accelerometer senses it's facing the right
        way, the motors stay on standby.

        digitalWrite(b, LOW);

    }

}

}
```