*<?***xml version="1.0" encoding="utf-8"***?>*

<**RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"**

**xmlns:app="http://schemas.android.com/apk/res-auto"**

**xmlns:tools="http://schemas.android.com/tools"**

**android:layout\_width="match\_parent"**

**android:layout\_height="match\_parent"**

**tools:context=".MainActivity"**>

<**ScrollView**

**android:layout\_width="match\_parent"**

**android:layout\_height="match\_parent"**

>

<**TextView**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:id="@+id/sensor\_list"**

**android:text="Sensor List Placeholder"**/>

</**ScrollView**>

</**RelativeLayout**>

**package** com.example.archana.a28\_sensorlist;

**import** android.content.Context;

**import** android.hardware.Sensor;

**import** android.hardware.SensorManager;

**import** android.support.v7.app.AppCompatActivity;

**import** android.os.Bundle;

**import** android.widget.TextView;

**import** java.util.List;

**public class** MainActivity **extends** AppCompatActivity {

**private** SensorManager **mSensorManager**;

@Override

**protected void** onCreate(Bundle savedInstanceState) {

**super**.onCreate(savedInstanceState);

setContentView(R.layout.***activity\_main***);

*// The sensor manager is a system*

*// service that lets you access the device sensors.*

**mSensorManager** = (SensorManager) getSystemService

(Context.***SENSOR\_SERVICE***);

*//The Sensor.TYPE\_ALL constant indicates*

*// all the available sensors.*

List<Sensor> sensorList = **mSensorManager**.

getSensorList(Sensor.***TYPE\_ALL***);

StringBuilder sensorText = **new** StringBuilder();

**for** (Sensor currentSensor : sensorList ) {

sensorText.append(currentSensor.getName()).append(

System.*getProperty*(**"line.separator"**));

TextView sensorTextView = findViewById

(R.id.***sensor\_list***);

sensorTextView.setText(sensorText);

}

}

}