

Practical 22

MainActivity.java

```
package com.example.practical22;

import androidx.appcompat.app.AppCompatActivity;

import android.hardware.Sensor;
import android.hardware.SensorManager;
import android.os.Bundle;
import android.widget.TextView;
import java.util.List;

public class MainActivity extends AppCompatActivity {

    TextView tv;

    SensorManager sm;

    @Override
    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

        tv=findViewById(R.id.textView2);

        sm=(SensorManager) getSystemService(SENSOR_SERVICE);

        List<Sensor> ls=sm.getSensorList(Sensor.TYPE_ALL);

        for(int i=0;i<ls.size();i++)

            tv.append("\n\n"+ls.get(i).getName()+"\t"+ls.get(i).getVersion()+"\t"+ls.get(i).getVendor());

    } }
```

Activity_main.xml

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

<androidx.constraintlayout.widget.ConstraintLayout
    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"

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```

```
tools:context=".MainActivity">
<RelativeLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent">
    <ScrollView
        android:layout_width="match_parent"
        android:layout_height="match_parent">
        <LinearLayout
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:orientation="vertical">
            <TextView
                android:id="@+id/textView1"
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:gravity="center_horizontal"
                android:text="List of sensors"
                android:textSize="20dp" />
            <TextView
                android:id="@+id/textView2"
                android:layout_width="match_parent"
                android:layout_height="wrap_content" />
        </LinearLayout>
    </ScrollView>
</RelativeLayout>
</androidx.constraintlayout.widget.ConstraintLayout>
```

OUTPUT

