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++)</pre>
      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"
   android:layout_height="match_parent"</pre>
```

```
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



List of sensors

Goldfish 3-axis Accelerometer 1 The Android Open Source Project

Goldfish 3-axis Gyroscope 1 The Android Open Source Project

Goldfish 3-axis Magnetic field sensor 1 $\,$ The Android Open Source Project $\,$

Goldfish Orientation sensor 1 The Android Open Source Project

Goldfish Ambient Temperature sensor 1 The Android Open Source Project

Goldfish Proximity sensor 1 The Android Open Source Project

Goldfish Light sensor 1 The Android Open Source Project

Goldfish Pressure sensor 1 The Android Open Source Project

Goldfish Humidity sensor 1 The Android Open Source Project

Goldfish 3-axis Magnetic field sensor (uncalibrated) 1 The Android Open Source Project $\,$

Goldfish 3-axis Gyroscope (uncalibrated) 1 The Android Open Source Project

Game Rotation Vector Sensor 3 AOSP

GeoMag Rotation Vector Sensor 3 AOSP

Gravity Sensor3 AOSP