**Create a simple application in android to display all the built-in sensors of emulator/machine.**

**XML CODE:-**

<?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"  
 tools:context=".MainActivity">  
 <ScrollView 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">  
  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:textSize="20dp"  
 android:id="@+id/t1"  
 />  
 </ScrollView>  
</androidx.constraintlayout.widget.ConstraintLayout>

Java Code:-

package com.example.sensor;  
  
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.*t1*);  
 sm = (SensorManager) getSystemService (*SENSOR\_SERVICE*);  
 List<Sensor> mlist=sm.getSensorList(Sensor.*TYPE\_ALL*);  
 for(int i=1;i<mlist.size(); i++)  
 {  
 tv.append("\n"+mlist.get(i).getName());  
 }  
 }  
}

**O/p:**

