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Course:-BCA 5A

Roll no:- 29

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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>
```

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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());
        }
    }
}
```

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O/p:

