

Practical22

- List all sensors in device

```
<?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">

    <ListView

        android:id="@+id/listView1"

        android:layout_width="match_parent"

        android:layout_height="match_parent" />

</androidx.constraintlayout.widget.ConstraintLayout>

package com.example.practical22;

import androidx.annotation.RequiresApi;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Context;
import android.hardware.Sensor;
import android.hardware.SensorManager;
import android.os.Build;
import android.os.Bundle;
import android.widget.ArrayAdapter;
import android.widget.ListView;
import java.util.List;

public class MainActivity extends AppCompatActivity
{
    SensorManager smm;
```

```

List<Sensor> sensor;

ListView lv;

@RequiresApi(api = Build.VERSION_CODES.M)

@Override

protected void onCreate(Bundle savedInstanceState)
{
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);

    smm = (SensorManager) getSystemService(Context.SENSOR_SERVICE);

    lv = (ListView) findViewById (R.id.listView1);

    sensor = smm.getSensorList(Sensor.TYPE_ALL);

    lv.setAdapter(new ArrayAdapter<Sensor>(this,android.R.layout.simple_list_item_1,sensor));
}
}

```

- Proximity sensor


```

package com.example.practical22;
import androidx.annotation.RequiresApi;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Context;
import android.hardware.Sensor;
import android.hardware.SensorManager;
import android.os.Build;
import android.os.Bundle;
import android.widget.ArrayAdapter;
import android.widget.ListView;
import java.util.List;
public class MainActivity extends AppCompatActivity
{
    SensorManager smm;
    List<Sensor> sensor;
    ListView lv;
    @RequiresApi(api = Build.VERSION_CODES.M)
    @Override
    protected void onCreate(Bundle savedInstanceState)
    {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        smm = (SensorManager) getSystemService(Context.SENSOR_SERVICE);
        lv = (ListView) findViewById (R.id.listView1);
        sensor = smm.getSensorList(Sensor.TYPE_ALL);

```

```

lv.setAdapter(new
ArrayAdapter<Sensor>(this,android.R.layout.simple_list_item_1,sensor));
    }
}

```

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    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"
    android:id="@+id/cl"

```

```

    tools:context=".MainActivity">

```

```

<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Hello World!"
    android:id="@+id/t1"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />

```

```

</androidx.constraintlayout.widget.ConstraintLayout>

```

