**Bluetooth**

**MainActivity.java**

package com.example.bluetooth;

import android.support.v7.app.AppCompatActivity;

import android.os.Bundle;

import android.bluetooth.BluetoothAdapter;

import android.bluetooth.BluetoothDevice;

import android.content.Intent;

import android.view.View;

import android.widget.ArrayAdapter;

import android.widget.Button;

import android.widget.ListView;

import android.widget.Toast;

import java.util.ArrayList;

import java.util.Set;

public class MainActivity extends AppCompatActivity {

Button b1,b2,b3,b4;

private BluetoothAdapter BA;

private Set<BluetoothDevice>pairedDevices;

ListView lv;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

b1 = (Button) findViewById(R.id.button);

b2=(Button)findViewById(R.id.button2);

b3=(Button)findViewById(R.id.button3);

b4=(Button)findViewById(R.id.button4);

BA = BluetoothAdapter.getDefaultAdapter();

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

}

public void on(View v){

if (!BA.isEnabled()) {

Intent turnOn = new Intent(BluetoothAdapter.ACTION\_REQUEST\_ENABLE);

startActivityForResult(turnOn, 0);

Toast.makeText(getApplicationContext(), "Turned on",Toast.LENGTH\_LONG).show();

} else {

Toast.makeText(getApplicationContext(), "Already on", Toast.LENGTH\_LONG).show();

}

}

public void off(View v){

BA.disable();

Toast.makeText(getApplicationContext(), "Turned off" ,Toast.LENGTH\_LONG).show();

}

public void visible(View v){

Intent getVisible = new Intent(BluetoothAdapter.ACTION\_REQUEST\_DISCOVERABLE);

startActivityForResult(getVisible, 0);

}

public void list(View v){

pairedDevices = BA.getBondedDevices();

ArrayList list = new ArrayList();

for(BluetoothDevice bt : pairedDevices) list.add(bt.getName());

Toast.makeText(getApplicationContext(), "Showing Paired Devices",Toast.LENGTH\_SHORT).show();

final ArrayAdapter adapter = new ArrayAdapter(this,android.R.layout.simple\_list\_item\_1, list);

lv.setAdapter(adapter);

}

}

**activity\_main.xml**

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

<RelativeLayout

xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:tools="http://schemas.android.com/tools"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".MainActivity"

android:transitionGroup="true">

<TextView

android:id="@+id/textview"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignParentTop="true"

android:layout\_centerHorizontal="true"

android:text="Bluetooth Example"

android:textSize="35dp" />

<TextView

android:id="@+id/textView"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_below="@+id/textview"

android:layout\_centerHorizontal="true"

android:text="Tutorials point"

android:textColor="#ff7aff24"

android:textSize="35dp" />

<Button

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Turn On"

android:id="@+id/button"

android:clickable="true"

android:onClick="on" />

<Button

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Get visible"

android:onClick="visible"

android:id="@+id/button2"

android:layout\_alignBottom="@+id/button"

android:layout\_centerHorizontal="true" />

<Button

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="List devices"

android:onClick="list"

android:id="@+id/button3"/>

<Button

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="turn off"

android:onClick="off"

android:id="@+id/button4"

android:layout\_below="@+id/button"

android:layout\_alignParentLeft="true"

android:layout\_alignParentStart="true" />

<ListView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:id="@+id/listView"

android:layout\_alignParentBottom="true"

android:layout\_alignLeft="@+id/button"

android:layout\_alignStart="@+id/button"

android:layout\_below="@+id/textView2" />

<TextView

android:id="@+id/textView2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_below="@+id/button4"

android:layout\_alignStart="@+id/listView"

android:layout\_alignLeft="@+id/listView"

android:text="Paired devices:"

android:textColor="#ff34ff06"

android:textSize="25dp" />

</RelativeLayout>

**AndroidManifest.xml**

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

<manifest xmlns:android="http://schemas.android.com/apk/res/android"

package="com.example.bluetooth">

<uses-permission android:name="android.permission.BLUETOOTH"/>

<uses-permission android:name="android.permission.BLUETOOTH\_ADMIN"/>

<application

android:allowBackup="true"

android:icon="@mipmap/ic\_launcher"

android:label="@string/app\_name"

android:roundIcon="@mipmap/ic\_launcher\_round"

android:supportsRtl="true"

android:theme="@style/Theme.Bluetooth">

<activity

android:name=".MainActivity"

android:exported="true">

<intent-filter>

<action android:name="android.intent.action.MAIN" />

<category android:name="android.intent.category.LAUNCHER" />

</intent-filter>

</activity>

</application>

</manifest>