3.10 Bluetooth

MainActivity.java

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| package com.example.bluetooth;  import android.bluetooth.BluetoothAdapter; import android.bluetooth.BluetoothDevice; import android.content.Intent; import android.os.Bundle;  import com.google.android.material.floatingactionbutton.FloatingActionButton; import com.google.android.material.snackbar.Snackbar;  import androidx.appcompat.app.AppCompatActivity; import androidx.appcompat.widget.Toolbar;  import android.view.View; import android.view.Menu; import android.view.MenuItem; import android.widget.ArrayAdapter; import android.widget.Button; import android.widget.ListView; import android.widget.Toast;  import java.util.ArrayList; import java.util.List; 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 );  setContentView( R.layout.*activity\_main* );   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 );  }  } |

activityMain.xml

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| <?xml version="1.0" encoding="utf-8"?> <RelativeLayout  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"  app:layout\_behavior="@string/appbar\_scrolling\_view\_behavior"  tools:context=".MainActivity"  tools:showIn="@layout/activity\_main">   <TextView  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="Bluetooth Example"  android:id="@+id/textview"  android:textSize="35dp"  android:layout\_alignParentTop="true"  android:layout\_centerHorizontal="true"/>  <ImageView  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:id="@+id/imageView"  android:src="@mipmap/ic\_launcher"  android:layout\_below="@+id/textview"  android:layout\_centerHorizontal="true"  android:theme="@style/Base.TextAppearance.AppCompat"/>  <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"  android:layout\_below="@+id/imageView"  android:layout\_alignParentStart="true"  android:layout\_toStartOf="@+id/imageView"/>  <Button  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="Get Visible"  android:onClick="visible"  android:id="@+id/button2"  android:layout\_alignTop="@+id/button"  android:layout\_alignEnd="@+id/listView"  android:layout\_toEndOf="@+id/imageView"/>  <Button  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="List Devices"  android:onClick="list"  android:id="@+id/button3"  android:layout\_below="@+id/button2"  android:layout\_alignEnd="@+id/button2"  android:layout\_alignStart="@+id/button2"/>  <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"  android:layout\_alignEnd="@+id/button"/>  <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:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="Paired devices"  android:id="@+id/textView2"  android:textColor="#ff34ff06"  android:textSize="25dp"  android:layout\_below="@+id/button4"  android:layout\_alignStart="@+id/listView"  android:layout\_alignLeft="@+id/listView"/>  </RelativeLayout> |

