Activity\_main.xml

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

<**android.support.constraint.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"**>

<**TextView android:text=""**

**android:id="@+id/out"**

**android:layout\_width="match\_parent"**

**android:layout\_height="wrap\_content"**>

</**TextView**>

<**Button**

**android:id="@+id/button1"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:layout\_marginBottom="8dp"**

**android:layout\_marginTop="8dp"**

**android:text="TURN\_ON"**

**app:layout\_constraintBottom\_toBottomOf="parent"**

**app:layout\_constraintEnd\_toEndOf="parent"**

**app:layout\_constraintLeft\_toLeftOf="parent"**

**app:layout\_constraintRight\_toRightOf="parent"**

**app:layout\_constraintStart\_toStartOf="parent"**

**app:layout\_constraintTop\_toTopOf="parent"**

**app:layout\_constraintVertical\_bias="0.212"**/>

<**Button**

**android:id="@+id/button2"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:layout\_marginBottom="8dp"**

**android:layout\_marginTop="8dp"**

**android:text="DISCOVERABLE"**

**app:layout\_constraintBottom\_toBottomOf="parent"**

**app:layout\_constraintLeft\_toLeftOf="parent"**

**app:layout\_constraintRight\_toRightOf="parent"**

**app:layout\_constraintTop\_toBottomOf="@+id/button3"**

**app:layout\_constraintVertical\_bias="0.167"**/>

<**Button**

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

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:layout\_marginTop="44dp"**

**android:text="TURN\_OFF"**

**app:layout\_constraintHorizontal\_bias="0.501"**

**app:layout\_constraintLeft\_toLeftOf="parent"**

**app:layout\_constraintRight\_toRightOf="parent"**

**app:layout\_constraintTop\_toBottomOf="@+id/button1"**/>

</**android.support.constraint.ConstraintLayout**>

MainActivity.java

**package** com.example.jevitha.a16\_5\_bluetooth;

**import** android.bluetooth.BluetoothAdapter;

**import** android.content.Intent;

**import** android.support.v7.app.AppCompatActivity;

**import** android.os.Bundle;

**import** android.view.View;

**import** android.widget.Button;

**import** android.widget.TextView;

**import** android.widget.Toast;

**public class** MainActivity **extends** AppCompatActivity {

//declaring request codes for startActivityForResult

**private static final int *REQUEST\_ENABLE\_BT*** = 0;

**private static final int *REQUEST\_DISCOVERABLE\_BT*** = 0;

@Override

**protected void** onCreate(Bundle savedInstanceState) {

**super**.onCreate(savedInstanceState);

setContentView(R.layout.***activity\_main***);

**final** TextView out=(TextView)findViewById(R.id.***out***);

**final** Button button1 = (Button) findViewById(R.id.***button1***);

**final** Button button2 = (Button) findViewById(R.id.***button2***);

**final** Button button3 = (Button) findViewById(R.id.***button3***);

// Get the bluetooth adapter object, to check whether bluetooth is supported by the device

**final** BluetoothAdapter mBluetoothAdapter = BluetoothAdapter.*getDefaultAdapter*();

**if** (mBluetoothAdapter == **null**) {

out.append(**"device not supported"**);

}

button1.setOnClickListener(**new** View.OnClickListener() {

**public void** onClick(View v) {

// if bluetooth adapter is not enabled, request for enabling bluetooth

**if** (!mBluetoothAdapter.isEnabled()) {

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

startActivityForResult(enableBtIntent, ***REQUEST\_ENABLE\_BT***);

}

}

});

button2.setOnClickListener(**new** View.OnClickListener() {

@Override

**public void** onClick(View arg0) {

// make the bluetooth device to be discovered by other devices

**if** (!mBluetoothAdapter.isDiscovering()) {

*//out.append("MAKING YOUR DEVICE DISCOVERABLE");*

Toast.*makeText*(getApplicationContext(), **"MAKING YOUR DEVICE DISCOVERABLE"**,

Toast.***LENGTH\_LONG***);

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

startActivityForResult(enableBtIntent, ***REQUEST\_DISCOVERABLE\_BT***);

}

}

});

button3.setOnClickListener(**new** View.OnClickListener() {

@Override

**public void** onClick(View arg0) {

// disable bluetooth adapter

mBluetoothAdapter.disable();

*//out.append("TURN\_OFF BLUETOOTH");*

Toast.*makeText*(getApplicationContext(), **"TURNING\_OFF BLUETOOTH"**, Toast.***LENGTH\_LONG***);

}

});

}

}

AndroidManifest.xml - Include the following permissions

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

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