**The XML code given below**:

*<?*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="abu.bluetooth.MainActivity" >  
 <RelativeLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="vertical">  
 <TextView  
 android:text=""  
 android:id="@+id/out"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"></TextView>  
  
 <Button  
 android:id="@+id/button1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentLeft="true"  
 android:layout\_alignParentTop="true"  
 android:layout\_marginLeft="30dp"  
 android:layout\_marginTop="49dp"  
 android:text="ON" />  
 <Button  
 android:id="@+id/button2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignLeft="@+id/button1"  
 android:layout\_below="@+id/button1"  
 android:layout\_marginTop="27dp"  
 android:text="COVERAGE" />  
 <Button  
 android:id="@+id/button3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignLeft="@+id/button2"  
 android:layout\_below="@+id/button2"  
 android:layout\_marginTop="28dp"  
 android:text="OFF" />  
 </RelativeLayout>  
  
</android.support.constraint.ConstraintLayout>

**The java code given below**

package abu.bluetooth;  
  
import android.os.Bundle;  
import android.app.Activity;  
import android.view.Menu;  
import android.app.Activity;  
import android.bluetooth.BluetoothAdapter;  
import android.content.Context;  
import android.content.Intent;  
import android.os.Bundle;  
import android.util.Log;  
import android.view.View;  
import android.widget.Button;  
import android.widget.TextView;  
import android.widget.Toast;  
  
public class MainActivity extends Activity {  
 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*);  
 final BluetoothAdapter mBluetoothAdapter = BluetoothAdapter.  
 getDefaultAdapter();  
 if (mBluetoothAdapter == null) {  
 out.append("device not supported");  
 }  
 button1.setOnClickListener(new View.OnClickListener() {  
 public void onClick(View v) {  
 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) {  
 if (!mBluetoothAdapter.isDiscovering()) {  
 Context context = getApplicationContext();  
 CharSequence text = "MAKING YOUR DEVICE DISCOVERABLE";  
 int duration = Toast.LENGTH\_SHORT;  
 Toast toast = Toast.makeText(context, text, duration);  
 toast.show();  
 Intent enableBtIntent = new Intent(BluetoothAdapter.ACTION\_REQUEST\_DISCOVERABLE);  
 startActivityForResult(enableBtIntent, *REQUEST\_DISCOVERABLE\_BT*);  
 }  
 }  
 });  
 button3.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View arg0) {  
 mBluetoothAdapter.disable();  
 Context context = getApplicationContext();  
 CharSequence text = "TURNING\_OFF BLUETOOTH";  
 int duration = Toast.LENGTH\_LONG;  
 Toast toast = Toast.makeText(context, text, 15);  
 toast.show();  
 }  
 });  
 }  
  
 @Override  
 public boolean onCreateOptionsMenu(Menu menu) {  
 *// Inflate the menu; this adds items to the action bar if it is present.* getMenuInflater().inflate(R.menu.*activity\_main*, menu);  
 return true;  
 }

}

**The AndroidManifest.xml Code Given Below:**

*<?*xml version="1.0" encoding="utf-8"*?>*<manifest xmlns:android="http://schemas.android.com/apk/res/android"  
 package="abu.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/AppTheme">  
 <activity android:name=".MainActivity">  
 <intent-filter>  
 <action android:name="android.intent.action.MAIN" />  
  
 <category android:name="android.intent.category.LAUNCHER" />  
 </intent-filter>  
 </activity>  
 </application>  
  
</manifest>