

Experiment 24

1.

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" >
    <TextView android:text="Bluetototh"
        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="40dp"
        android:textStyle="bold"
        android:textColor="#FF0000"
        android:textSize="25sp"/>
    <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="90dp"
        android:onClick="on"
        android:text="TURN_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:onClick="visible"
        android:text="GET_VISIBLE" />
    <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="27dp"
        android:onClick="list"
        android:text="List Devices" />
<Button
    android:id="@+id/button4"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignLeft="@+id/button3"
    android:layout_below="@+id/button3"
    android:layout_marginTop="28dp"
    android:onClick="off"
    android:text="TURN_OFF" />
<ListView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/listView"
    android:layout_marginTop="10dp"
    android:layout_alignParentBottom="true"
    android:layout_alignLeft="@+id/button1"
    android:layout_alignStart="@+id/button1"
    android:layout_marginRight="30dp"
    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="#FF0000"
    android:textSize="25dp"
    android:textStyle="bold"
    android:layout_marginTop="20dp"
    android:layout_below="@+id/button4"
    android:layout_alignLeft="@+id/listView"
    android:layout_alignStart="@+id/listView" />
</RelativeLayout>

```

MainActivity.java

```
package com.example.exp24;
import android.app.Activity;
import android.bluetooth.BluetoothAdapter;
import android.bluetooth.BluetoothDevice;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.Button;
import android.widget.ListView;
import android.widget.Toast;
import java.util.ArrayList;
import java.util.Set;
public class MainActivity extends Activity {
    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.button1);
        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();  
}  
}
```

Output:

