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.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 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:

