

Practical 24

MainActivity.java

```
package com.example.practical24;
import androidx.appcompat.app.AppCompatActivity;
import android.bluetooth.BluetoothAdapter;
import android.bluetooth.BluetoothDevice;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;
import android.widget.Toast;

import java.util.Set;

public class MainActivity extends AppCompatActivity {
    Button b1,b2,b3,b4;
    TextView tvlist;
    BluetoothAdapter ba;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        b1=findViewById(R.id.btnon);
        b2=findViewById(R.id.btnvisible);
        b3=findViewById(R.id.btnlist);
        b4=findViewById(R.id.btnoff);
        tvlist=findViewById(R.id.devlist);
        ba=BluetoothAdapter.getDefaultAdapter();

        b1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                if(ba.isEnabled())
                    Toast.makeText(getApplicationContext(),"Bluetooth already
on",Toast.LENGTH_LONG).show();
                else
                {
                    Intent ion=new Intent(BluetoothAdapter.ACTION_REQUEST_ENABLE);
                    startActivityForResult(ion,22);
                    Toast.makeText(getApplicationContext(),"Bluetooth turned
on",Toast.LENGTH_LONG).show();
                }
            }
        });

        b2.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Intent vi=new Intent(BluetoothAdapter.ACTION_REQUEST_DISCOVERABLE);
```

```

        startActivityResult(vi,22);
    }
});

b4.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        ba.disable();
        Toast.makeText(getApplicationContext(),"Bluetooth turned
off",Toast.LENGTH_LONG).show();
    }
});

b3.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        String list = "";
        Set<BluetoothDevice> devices = ba.getBondedDevices();
        if (devices.size() > 0) {
            for (BluetoothDevice bd : devices) {
                list=list+"\n"+bd.getName();
            }
            tvlist.setText(list);
        }
        else
            tvlist.setText("No device found");
    }
});
}
}

```

activity_main.xml

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    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"
    android:layout_marginLeft="20dp"
    android:orientation="vertical"
    tools:context=".MainActivity">
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/heading"
        android:text="Bluetooth"
    >

```

```
    android:textSize="40dp"  
    android:textStyle="bold"/>
```

```
<Button  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:layout_marginTop="10dp"  
    android:text="Turn On"  
    android:id="@+id/btnon"  
    android:background="#A19A9A"/>
```

```
<Button  
    android:id="@+id/btnvisible"  
    android:layout_width="118dp"  
    android:layout_height="wrap_content"  
    android:layout_marginTop="10dp"  
    android:background="#A19A9A"  
    android:text="Get Visible" />
```

```
<Button  
    android:id="@+id/btnlist"  
    android:layout_width="118dp"  
    android:layout_height="wrap_content"  
    android:layout_marginTop="10dp"  
    android:background="#A19A9A"  
    android:text="List Devices" />
```

```
<Button  
    android:id="@+id/btnoff"  
    android:layout_width="105dp"  
    android:layout_height="wrap_content"  
    android:layout_marginTop="10dp"  
    android:background="#A19A9A"  
    android:text="Turn Off" />
```

```
<TextView  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:layout_marginTop="20dp"  
    android:id="@+id/list"  
    android:text="List of devices"  
    android:textSize="40dp"  
    android:textStyle="bold"/>
```

```
<TextView  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:id="@+id/devlist"/>
```

```
</LinearLayout>
```

OUTPUT

