

Practical 21

1. Write a Program to demonstrate the use of broadcast receiver.

Xml Code :

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout 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:id="@+id/textview1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentTop="true"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="30dp"
        android:text="Example of Broadcast"
        android:textSize="30dp"
        android:textColor="@color/black"/>
    <TextView
        android:id="@+id/textView2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_above="@+id/imageButton"
        android:layout_centerHorizontal="true"
        android:layout_marginBottom="40dp"
        android:text="broadcast example"
        android:textColor="#000000"
        android:textSize="30dp" />
    <ImageButton
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/imageButton"
        android:layout_centerVertical="true"
        android:layout_centerHorizontal="true" />
    <Button
        android:id="@+id/button2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@+id/imageButton"
        android:layout_centerHorizontal="true"
        android:onClick="broadcastIntent"
        android:textSize="20dp"
        android:backgroundTint="@color/black"
        android:text="Broadcast Intent" />
</RelativeLayout>
```

MyReciever.java:

```
package com.example.exp21;
import android.content.BroadcastReceiver;
import android.content.Context;
import android.content.Intent;
import android.widget.Toast;
public class MyReceiver extends BroadcastReceiver {
    @Override
    public void onReceive(Context context, Intent intent) {
        Toast.makeText(context, "Intent Detected.", Toast.LENGTH_LONG).show();
    }
}
```

Java Code :

```
package com.example.exp21;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {
    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
    public void broadcastIntent(View view){
        Intent intent = new Intent();
        intent.setAction("com.tutorialspoint.CUSTOM_INTENT");
        sendBroadcast(intent);
        Toast.makeText(getApplicationContext(),"Intent Detected",Toast.LENGTH_LONG).show();
    }
}
```

Output:

