

Experiment 21

1.

Android Manifest.xml

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.broadcastreceiver">
    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportRtl="true"
        android:theme="@style/Theme.BroadcastReceiver">
        <activity android:name=".MainActivity"
            android:exported="true">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />
                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
        <receiver android:name=".MyReceiver"
            android:exported="true">
            <intent-filter>
                <action android:name="MyAction" />
            </intent-filter>
        </receiver>
    </application>
</manifest>
```

ActivityMain.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:orientation="vertical"
        android:gravity="center"
        tools:context=".MainActivity">
        <TextView
            android:id="@+id/t1"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Example of Broadcast"
            android:textStyle="bold"
            android:textColor="#FF0000"
            android:textAppearance="?android:textAppearanceLarge"/>
        <Button
            android:id="@+id/b1"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:onClick="broadcastIntent"
            android:layout_marginTop="10dp"
            android:text="Broadcast Intent"/>
    </LinearLayout>

```

MainActivity.java

```

package com.example.broadcastreceiver;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
public class MainActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
    public void broadcastIntent(View view) {
        Intent i=new Intent(this, MyReceiver.class);
        i.setAction("MyAction");
        sendBroadcast(i);
    }
}

```

MyReciever.java

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

Output:

