

12) Create an application for Broadcast sender and receivers.

// XML

```
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    package="com.example.broad_cast">
    <uses-permission android:name="android.permission.RECEIVE_SMS"/>
    <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.Broad_cast">
        <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=".BroadcastReceiver1"
            android:exported="true">
            <intent-filter>
                <action
                    android:name="android.provider.Telephony.SMS_Received"/>
                <category android:name="android.intent.category.DEFAULT"/>
            </intent-filter>
        </receiver>
    </application>
</manifest>
```

// JAVA File

```
import androidx.appcompat.app.AppCompatActivity;

import android.content.BroadcastReceiver;
import android.content.Context;
import android.content.Intent;
import android.content.IntentFilter;
import android.os.Bundle;
import android.view.View;

import java.util.Locale;

public class MainActivity extends AppCompatActivity
{
    BroadcastReceiver1 br = new BroadcastReceiver1();
    @Override
    protected void onCreate(Bundle savedInstanceState)
    {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
}
```

```

    }

    public void btnClicked(View v)
    {
        Intent in = new Intent();
        in.addCategory(in.CATEGORY_DEFAULT);
        in.setAction("my.customcast.agam");
        sendBroadcast(in);
    }
    @Override
    protected void onStart()
    {
        super.onStart();
        IntentFilter in1 = new IntentFilter("my.customcast.agam");
        in1.addCategory(Intent.CATEGORY_DEFAULT);
        registerReceiver(br,in1);
    }

    @Override
    protected void onStop()
    {
        super.onStop();
        unregisterReceiver(br);
    }
}

// BroadCast File

import android.content.BroadcastReceiver;
import android.content.Context;
import android.content.Intent;
import android.widget.Toast;

public class BroadcastReceiver1 extends BroadcastReceiver
{
    @Override
    public void onReceive(Context context, Intent intent) {
        Toast.makeText(context, "Broadcast Receiver Triggered",
        Toast.LENGTH_SHORT).show();
    }
}

```

Broad_cast

CLICK

Broadcast Receiver Triggered

