**TASK NO.1**

Create an application named DebugConsole having the following UI. Create an application which can send broadcast to the DebugConsole (above application).

# CODING:

# MainActivity.java:

package com.example.practice10;

import android.content.BroadcastReceiver;

import android.content.ComponentName;

import android.content.Context;

import android.content.Intent;

import android.content.IntentFilter;

import android.content.ServiceConnection;

import android.os.IBinder;

import android.support.v7.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.EditText;

import android.widget.TextView;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity{ EditText msg;

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.*activity\_main*);

msg=(EditText) findViewById(R.id.*debugMessage*);

BroadcastReceiverbr=new BroadcastReceiver() {

public void onReceive(Context context, Intent intent) {

String s=intent.getStringExtra("info");

Toast.*makeText*(getApplicationContext(), s, Toast.*LENGTH\_SHORT*).show();

}

};

IntentFilter filter =new IntentFilter("DEBUG\_INFO");

registerReceiver(br,filter);

}

public void onBtnSend(View v) { Intent intent = new Intent();

intent.putExtra("info", msg.getText().toString()); intent.setAction("DEBUG\_INFO");

sendBroadcast(intent);

}}

# Activity\_main.xml:

*<?*xml version="1.0" encoding="utf-8"*?>*

<RelativeLayoutxmlns: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:paddingRight="16dp"

android:paddingTop="16dp"

android:paddingBottom="16dp"

android:background="@drawable/background"

android:layout\_height="match\_parent"

tools:context=".MainActivity">

<LinearLayoutandroid:layout\_margin="30dp"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical">

<EditTextandroid:id="@+id/debugMessage"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:inputType="textPersonName"

android:layout\_gravity="center"

android:hint="Debug message goes here “ />

<Button android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:layout\_gravity="center" android:onClick="onBtnSend" android:text="Send" tools:layout\_editor\_absoluteX="16dp"

tools:layout\_editor\_absoluteY="73dp" />

</LinearLayout>

</RelativeLayout>

# OUTPUT:



