**Program:**

**MAIN.XML**<ScrollView

xmlns:android="http://schemas.android.com/apk/res/android"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent">

<LinearLayout

android:orientation="vertical"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:padding="6dip">

<CheckBox

android:id="@+id/sms\_enable\_receiver"

android:text="@string/sms\_enable\_receiver"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content" />

<TableLayout

android:padding="6dip"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:stretchColumns="1">

<TableRow android:layout\_width="match\_parent">

<TextView android:text="@string/sms\_recipient\_label" />

<EditText android:id="@+id/sms\_recipient" /></TableRow>

<TableRow>

<TextView android:text="@string/sms\_content\_label" />

<EditText android:id="@+id/sms\_content" />

</TableRow>

<TableRow>

<Button

android:id="@+id/sms\_send\_message"

android:text="@string/sms\_send\_message"

android:layout\_column="1" />

</TableRow>

<TableRow>

<TextView

android:id="@+id/sms\_status"

android:layout\_column="1" />

</TableRow>

</TableLayout>

</LinearLayout>

</ScrollView>

src/SmsMessageReceiver.java

package com.example.smssenderexample;

import android.content.BroadcastReceiver;

import android.content.Context;

import android.content.Intent;

import android.database.Cursor;

import android.net.Uri;

import android.os.Bundle;

import android.provider.ContactsContract;

import android.telephony.SmsMessage;

public class SmsMessageReceiver extends BroadcastReceiver

{

private static final String TAG = "SmsMessageReceiver";

@Override

public void onReceive(Context context, Intent intent)

{

Bundle extras = intent.getExtras();

if (extras == null)

return;

Object[] pdus = (Object[]) extras.get("pdus");

for (int i = 0; i < pdus.length; i++)

{

SmsMessage message = SmsMessage.createFromPdu((byte[]) pdus[i]);

String fromAddress = message.getOriginatingAddress();

String fromDisplayName = fromAddress;

Uri uri;

String[] projection;

uri = Uri.withAppendedPath(

ContactsContract.PhoneLookup.CONTENT\_FILTER\_URI,

Uri.encode(fromAddress));

projection = new String[]

{

ContactsContract.PhoneLookup.DISPLAY\_NAME

};

// Query the filter URI

Cursor cursor = context.getContentResolver().query(uri, projection, null, null, null);

if (cursor != null) {

if (cursor.moveToFirst())

fromDisplayName = cursor.getString(0);

cursor.close();

}

Intent di = new Intent();

di.setClass(context, SmsReceivedDialog.class);

di.addFlags(Intent.FLAG\_ACTIVITY\_NEW\_TASK | Intent.FLAG\_ACTIVITY\_SINGLE\_TOP);

di.putExtra(SmsReceivedDialog.SMS\_FROM\_ADDRESS\_EXTRA, fromAddress);

di.putExtra(SmsReceivedDialog.SMS\_FROM\_DISPLAY\_NAME\_EXTRA, fromDisplayName);

di.putExtra(SmsReceivedDialog.SMS\_MESSAGE\_EXTRA, message.getMessageBody().toString());

context.startActivity(di);

break;

}

}

}

src/SmsReceivedDialog.java

package com.example.smssenderexample;

import java.util.Locale;

import android.app.Activity;

import android.app.AlertDialog;

import android.app.Dialog;

import android.content.DialogInterface;

import android.content.Intent;

import android.os.Bundle;

import android.speech.tts.TextToSpeech;

import android.speech.tts.TextToSpeech.OnInitListener;

import android.util.Log;

public class SmsReceivedDialog extends Activity implements OnInitListener {

private static final String TAG = "SmsReceivedDialog";

private static final int DIALOG\_SHOW\_MESSAGE = 1;

public static final String SMS\_FROM\_ADDRESS\_EXTRA = "com.example.android.apis.os.SMS\_FROM\_ADDRESS";

public static final String SMS\_FROM\_DISPLAY\_NAME\_EXTRA = "com.example.android.apis.os.SMS\_FROM\_DISPLAY\_NAME";

public static final String SMS\_MESSAGE\_EXTRA = "com.example.android.apis.os.SMS\_MESSAGE";

private TextToSpeech mTts;

private String mFromDisplayName;

private String mFromAddress;

private String mMessage;

private String mFullBodyString;

@Override

protected void onCreate(Bundle savedInstanceState)

{

super.onCreate(savedInstanceState);

mFromAddress = getIntent().getExtras().getString(SMS\_FROM\_ADDRESS\_EXTRA); mFromDisplayNamegetIntent().getExtras().getString(SMS\_FROM\_DISPLAY\_NAME\_EXTRA);

mMessage = getIntent().getExtras().getString(SMS\_MESSAGE\_EXTRA);

mFullBodyString = String.format(

getResources().getString(R.string.sms\_speak\_string\_format),

mFromDisplayName,

mMessage);

showDialog(DIALOG\_SHOW\_MESSAGE);

mTts = new TextToSpeech(this, this);

}

public void onInit(int status)

{

if (status == TextToSpeech.SUCCESS)

{

int result = mTts.setLang

uage(Locale.US);

if (result == TextToSpeech.LANG\_MISSING\_DATA

|| result == TextToSpeech.LANG\_NOT\_SUPPORTED)

{

Log.e(TAG, "TTS language is not available.");

}

Else

{

mTts.speak(mFullBodyString, TextToSpeech.QUEUE\_ADD, null);

}

}

Else

{ // Initialization failed.

Log.e(TAG, "Could not initialize TTS.");

}

}

@Override

protected Dialog onCreateDialog(int id) {

switch (id) {

case DIALOG\_SHOW\_MESSAGE:

return new AlertDialog.Builder(this)

.setIcon(android.R.drawable.ic\_dialog\_email)

.setTitle("Message Received")

.setMessage(mFullBodyString)

.setPositiveButton(R.string.reply, new DialogInterface.OnClickListener()

{

public void onClick(DialogInterface dialog, int whichButton)

{

// Begin creating the reply with the SmsMessagingDemo activity

Intent i = new Intent();

i.setClass(SmsReceivedDialog.this, SMSSenderExample.class);

i.putExtra(SMSSenderExample.SMS\_RECIPIENT\_EXTRA, mFromAddress);

startActivity(i);

dialog.dismiss();

finish();

}

})

.setNegativeButton(R.string.dismiss, new DialogInterface.OnClickListener()

{

public void onClick(DialogInterface dialog, int whichButton)

{

dialog.dismiss();

finish();

}

})

.setOnCancelListener(new DialogInterface.OnCancelListener()

{

public void onCancel(DialogInterface dialog)

{

finish();

}

}).create();

}

return null; }

}

strings.xml

<resources>

<string name="app\_name">SMSSenderExample</string>

<string name="hello\_world">Hello world!</string>

<string name="menu\_settings">Settings</string>

<string name="title\_activity\_smssender\_example">SMSSenderExample</string

<string name="sms\_enable\_receiver">Enable SMS broadcast receiver</string>

<string name="sms\_recipient\_label">Recipient #</string>

<string name="sms\_content\_label">Message Body</string>

<string name="sms\_send\_message">Send</string>

<string name="sms\_speak\_string\_format">Message from "%1$s": %2$s</string>

<string name="reply">Reply</string>

<string name="dismiss">Dismiss</string>

<string name="share">Share</string>

</resources>

Open SMSSenderExample.java file

package com.example.smssenderexample;

import java.util.List;

import android.app.Activity;

import android.app.PendingIntent;

import android.content.BroadcastReceiver;

import android.content.ComponentName;

import android.content.Context;

import android.content.Intent;

import android.content.IntentFilter;

import android.content.pm.PackageManager;

import android.graphics.Color;

import android.os.Bundle;

import android.telephony.gsm.SmsManager;

import android.text.TextUtils;

import android.util.Log;

import android.view.View;

import android.view.View.OnClickListener;

import android.widget.Button;

import android.widget.CheckBox;

import android.widget.CompoundButton;

import android.widget.CompoundButton.OnCheckedChangeListener;

import android.widget.EditText;

import android.widget.TextView;

import android.widget.Toast;

public class SMSSenderExample extends Activity

{

/\*\* Tag string for our debug logs \*/

private static final String TAG = "SmsMessagingDemo";

public static final String SMS\_RECIPIENT\_EXTRA = "com.example.android.apis.os.SMS\_RECIPIENT";

public static final String ACTION\_SMS\_SENT = "com.example.android.apis.os.SMS\_SENT\_ACTION";

@Override

protected void onCreate(Bundle savedInstanceState)

{

super.onCreate(savedInstanceState);

setContentView(R.layout.main);

if (getIntent().hasExtra(SMS\_RECIPIENT\_EXTRA))

{

((TextView) findViewById(R.id.sms\_recipient)).setText(getIntent().getExtras()

.getString(SMS\_RECIPIENT\_EXTRA));

((TextView) findViewById(R.id.sms\_content)).requestFocus();

}

// Enable or disable the broadcast receiver depending on the checked

// state of the checkbox.

CheckBox enableCheckBox = (CheckBox) findViewById(R.id.sms\_enable\_receiver);

final PackageManager pm = this.getPackageManager();

final ComponentName componentName = new ComponentName("com.example.android.apis","com.example.android.apis.os.SmsMessageReceiver");

enableCheckBox.setChecked(pm.getComponentEnabledSetting(componentName) ==

PackageManager.COMPONENT\_ENABLED\_STATE\_ENABLED); enableCheckBox.setOnCheckedChangeListener(new OnCheckedChangeListener()

{

public void onCheckedChanged(CompoundButton buttonView, boolean isChecked)

{

Log.d(TAG, (isChecked ? "Enabling" : "Disabling") + " SMS receiver");

pm.setComponentEnabledSetting(componentName,

isChecked ? PackageManager.COMPONENT\_ENABLED\_STATE\_ENABLED: PackageManager.COMPONENT\_ENABLED\_STATE\_DISA, PackageManager.DONT\_KILL\_APP);

}

});

final EditText recipientTextEdit = (EditText) SMSSenderExample.this

.findViewById(R.id.sms\_recipient);

final EditText contentTextEdit = (EditText) SMSSenderExample.this

.findViewById(R.id.sms\_content);

final TextView statusView = (TextView) SMSSenderExample.this.findViewById(R.id.sms\_status);

// Watch for send button clicks and send text messages.

Button sendButton = (Button) findViewById(R.id.sms\_send\_message);

sendButton.setOnClickListener(new OnClickListener() {

public void onClick(View v) {

if (TextUtils.isEmpty(recipientTextEdit.getText())) {

Toast.makeText(SMSSenderExample.this, "Please enter a message recipient.",

Toast.LENGTH\_SHORT).show();

return;

}

if (TextUtils.isEmpty(contentTextEdit.getText()))

{

Toast.makeText(SMSSenderExample.this, "Please enter a message body.",

Toast.LENGTH\_SHORT).show();

return;

}

recipientTextEdit.setEnabled(false);

contentTextEdit.setEnabled(false);

SmsManager sms = SmsManager.getDefault();

List<String> messages=sms.divideMessage(contentTextEdit.getText().toString());

String recipient = recipientTextEdit.getText().toString();

for (String message : messages)

{

sms.sendTextMessage(recipient, null, message, PendingIntent.getBroadcast(

SMSSenderExample.this, 0, new Intent(ACTION\_SMS\_SENT), 0), null);

}

}

});

// Register broadcast receivers for SMS sent and delivered intents registerReceiver(new BroadcastReceiver()

{

@Override

public void onReceive(Context context, Intent intent) {

String message = null;

boolean error = true;

switch (getResultCode()) {

case Activity.RESULT\_OK:

message = "Message sent!";

error = false;

break;

case SmsManager.RESULT\_ERROR\_GENERIC\_FAILURE:

message = "Error.";

break;

case SmsManager.RESULT\_ERROR\_NO\_SERVICE:

message = "Error: No service.";

break;

case SmsManager.RESULT\_ERROR\_NULL\_PDU:

message = "Error: Null PDU.";

break;

case SmsManager.RESULT\_ERROR\_RADIO\_OFF:

message = "Error: Radio off.";

break;

}

recipientTextEdit.setEnabled(true);

contentTextEdit.setEnabled(true);

contentTextEdit.setText("");

statusView.setText(message);

statusView.setTextColor(error ? Color.RED : Color.GREEN);

}

}, new IntentFilter(ACTION\_SMS\_SENT));

}

}