

```
// smsReceiver.java
```

```
import android.app.NotificationManager;
import android.app.PendingIntent;
import android.content.BroadcastReceiver;
import android.content.Context;
import android.content.Intent;
import android.support.v4.app.NotificationCompat;
import android.telephony.SmsMessage;
import android.widget.Toast;
```

```
public class smsReceiver extends BroadcastReceiver {
```

```
    @Override
```

```
    public void onReceive(Context context, Intent intent) {
        try{
            if(intent.getAction().equals("android.provider.Telephony.SMS_RECEIVED")){
                Object[] pdus=(Object[]) intent.getExtras().get("pdus");
                SmsMessage[] messages=new SmsMessage[pdus.length];

                String msg="";
                for(int i=0;i<pdus.length;i++){
                    messages[i]=SmsMessage.createFromPdu((byte[])pdus[i]);
                    msg+=messages[i].getMessageBody();
                }
                String sender=messages[0].getOriginatingAddress();
                Toast.makeText(context, sender+" : "+msg, Toast.LENGTH_SHORT).show();

                notification(context,intent,sender,msg);
            }
        }
        catch (Exception e){
            e.printStackTrace();
        }
    }
}
```

```
    public void notification(Context context,Intent intent,String title,String message){
        PendingIntent pd=PendingIntent.getActivity(context,0,intent,0);
        NotificationCompat.Builder builder=new NotificationCompat.Builder(context);
        builder.setContentTitle(title);
        builder.setContentText(message);
        builder.setSmallIcon(R.mipmap.ic_launcher_round);
        builder.setContentIntent(pd);
```

```
        NotificationManager notificationManager=(NotificationManager)
        context.getSystemService(Context.NOTIFICATION_SERVICE);
        notificationManager.notify(1,builder.build());
    }
}
```

```
// ex10_main.java
```

```
import android.Manifest;
import android.content.Context;
import android.content.pm.PackageManager;
import android.support.v4.app.ActivityCompat;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.telephony.SmsManager;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
```

```
public class ex10_main extends AppCompatActivity {
```

```
    // add the necessary permission in the manifest file
```

```
    int PERMISSION_ALL = 1;
    String[] PERMISSIONS = {
        android.Manifest.permission.READ_SMS,
        Manifest.permission.SEND_SMS
    };
```

```
    @Override
```

```
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.ex10_main);
```

```
        Button bt_send=findViewById(R.id.bt_send);
        final EditText et_mobile=findViewById(R.id.et_mobile);
        final EditText et_text=findViewById(R.id.et_text);
```

```
        if (!hasPermissions(this, PERMISSIONS)) {
            ActivityCompat.requestPermissions(this, PERMISSIONS, PERMISSION_ALL);
        }
```

```
        bt_send.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                SmsManager smsManager=SmsManager.getDefault();
```

```
                smsManager.sendTextMessage(et_mobile.getEditableText().toString(),null,et_text.getEditableText().toString(),null,null);
            }
        });
```

```
    }
```

```
    public static boolean hasPermissions(Context context, String... permissions) {
        if (context != null && permissions != null) {
```

```

        for (String permission : permissions) {
            if (ActivityCompat.checkSelfPermission(context, permission) !=
PackageManager.PERMISSION_GRANTED) {
                return false;
            }
        }
    }
    return true;
}
}

```

