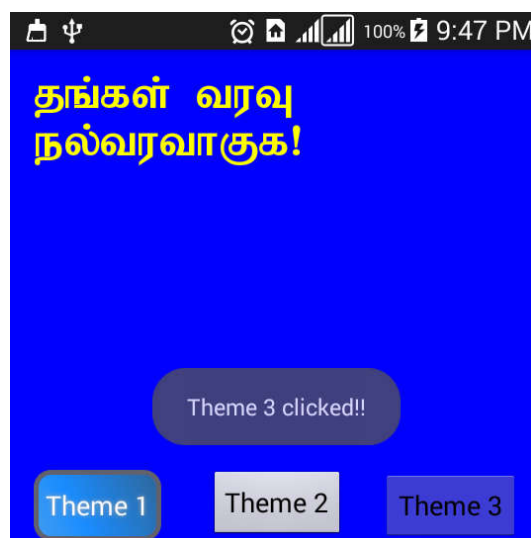
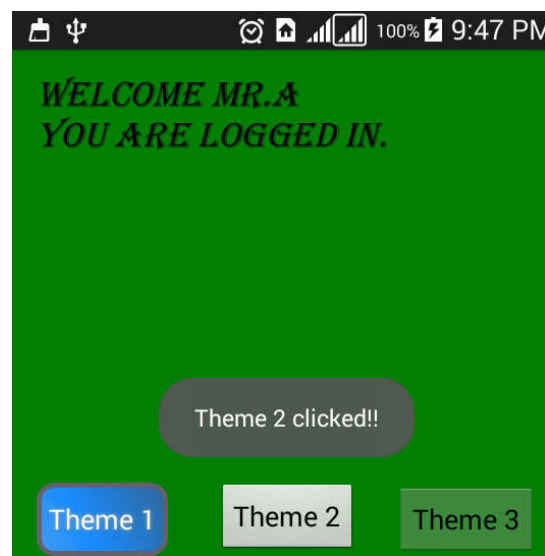
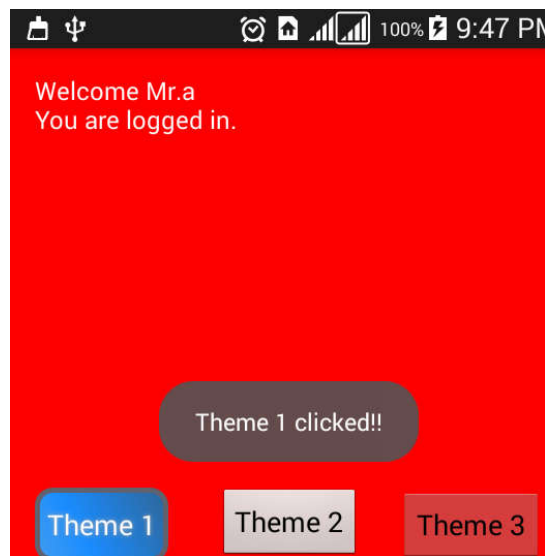
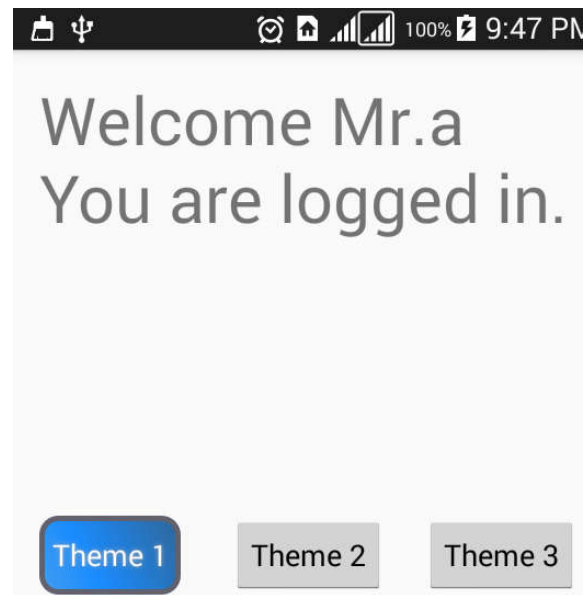


Username :  
a

Password :  
1

Title : ☒ Mr. ☐ Ms. ☐ Miss.

Login



<TextView

```
    android:id="@+id/textView1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="start"
    android:gravity="start"
    android:text="@string/uname"
    android:textAppearance="?android:attr/textAppearanceLarge" />
```

<EditText

```
    android:id="@+id/editText1"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:ems="10"
    android:inputType="text" >
    <requestFocus />
```

</EditText>

<TextView

```
    android:id="@+id/textView2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="start"
    android:gravity="start"
    android:text="@string/passwd"
    android:textAppearance="?android:attr/textAppearanceLarge" />
```

<EditText

```
    android:id="@+id/editText2"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:ems="10"
    android:inputType="textPassword" />
```

<LinearLayout

```
android:layout_width="match_parent"  
android:layout_height="wrap_content"  
android:orientation="horizontal" >
```

<TextView

```
android:id="@+id/textView4"  
android:layout_width="wrap_content"  
android:layout_height="wrap_content"  
android:layout_gravity="start"  
android:gravity="start"  
android:text="@string/title"  
android:textAppearance="?android:attr/textAppearanceLarge" />
```

<RadioGroup

```
android:id="@+id/radioGroup1"  
android:layout_width="wrap_content"  
android:layout_height="wrap_content"  
android:layout_gravity="center_horizontal"  
android:gravity="center_horizontal"  
android:orientation="horizontal" >
```

<RadioButton

```
android:id="@+id/radio0"  
android:layout_width="wrap_content"  
android:layout_height="wrap_content"  
android:layout_gravity="fill_horizontal"  
android:checked="true"  
android:text="@string/mr" />
```

<RadioButton

```
android:id="@+id/radio1"  
android:layout_width="wrap_content"  
android:layout_height="wrap_content"  
android:layout_gravity="fill_horizontal"  
android:text="@string/ms" />
```

```
<RadioButton
    android:id="@+id/radio2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="fill_horizontal"
    android:text="@string/miss" />
```

```
</RadioGroup>
</LinearLayout>
```

```
<Button
    android:id="@+id/button1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="@string/btn_name" />
```

```
</LinearLayout>
```

### **activity\_result.xml**

```
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:id="@+id/rl1"
    android:paddingBottom="@dimen/activity_vertical_margin"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    tools:context="in.jacsice.android.guicomponents.ResultActivity" >
    <TextView
        android:id="@+id/textview1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/hello_world" />
    <Button
```

```
android:id="@+id/button1"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignLeft="@+id/textview1"
android:layout_alignStart="@+id/textview1"
android:layout_centerVertical="true"
android:text="@string/theme1"
android:background="@drawable/button"
android:textColor="#FFFFFF"
    android:shadowColor="#A8A8A8"
    android:shadowDx="0"
    android:shadowDy="0"
    android:shadowRadius="5" />
```

<Button

```
android:id="@+id/button2"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_centerHorizontal="true"
android:layout_centerVertical="true"
android:text="@string/theme2"
/>
```

<Button

```
android:id="@+id/button3"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignParentRight="true"
android:layout_alignParentEnd="true"
android:layout_centerVertical="true"
android:text="@string/theme3" />
```

</RelativeLayout>

---

## **MainActivity.java**

```
package in.jacsice.android.guicomponents;
```

```
import android.app.Activity;
import android.content.Intent;
import android.os.Bundle;
import android.view.Gravity;
import android.view.View;
import android.widget.EditText;
import android.widget.Button;
import android.widget.RadioButton;
import android.widget.RadioGroup;
import android.widget.Toast;
```

```
public class MainActivity extends Activity {
```

```
    private EditText ed1,ed2;
    private RadioGroup rg1;
    private RadioButton rb;
    private Button bu;
```

```
    public final static String EXTRA_MESSAGE = "username";
    private Intent intent;
    String message;
```

```
@Override
```

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

```
    bu = (Button) findViewById(R.id.button1);
    bu.setOnClickListener(new View.OnClickListener() {
```

```
@Override
```

```

public void onClick(View v) {
    ed1 = (EditText) findViewById(R.id.editText1);
    ed2 = (EditText) findViewById(R.id.editText2);
    rg1 = (RadioGroup) findViewById(R.id.radioGroup1);

    int selectedId=rg1.getCheckedRadioButtonId();

    rb=(RadioButton)findViewById(selectedId);

    String a = ed1.getText().toString();
    String b = ed2.getText().toString();
    String c = rb.getText().toString();

    if (a.equals("a") && b.equals("a")) {
        intent=new Intent(v.getContext(),ResultActivity.class);
        message = "Welcome "+c+" "+a+"\nYou are logged in.";
        intent.putExtra(EXTRA_MESSAGE, message);
        v.getContext().startActivity(intent);
    }

    else {
        Toast msg = Toast.makeText(getApplicationContext(), "Invalid User!!!", Toast.LENGTH_LONG);
        msg.setGravity(Gravity.CENTER|Gravity.CENTER_HORIZONTAL, 0, -100);
        msg.show();
    }
}

```

---

### **ResultActivity.java**

```

package in.jacsice.android.guicomponents;

import android.annotation.TargetApi;
import android.app.Activity;
import android.os.Build;
import android.os.Bundle;
import android.content.Intent;
import android.graphics.Typeface;

```

```
import android.graphics.drawable.Drawable;
import android.util.TypedValue;
import android.view.Gravity;
import android.view.View;
import android.widget.Button;
import android.widget.RelativeLayout;
import android.widget.TextView;
import android.widget.Toast;
```

```
public class ResultActivity extends Activity {
```

```
    private TextView tv1;
    private Button bu1,bu2,bu3;
    private String tamilstr="jq;fs; tuT ey;tuthFf!";
    private Typeface tf=null;
    private String message="english text";
```

```
    @Override
```

```
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_result);
        Intent intent = getIntent();
```

```
        message = intent.getStringExtra(MainActivity.EXTRA_MESSAGE);
```

```
        // Create the text view
```

```
        tv1 = (TextView) findViewById(R.id.textview1);
        tv1.setTextSize(40);
        tv1.setText(message);
```

```
        // Set the text view as the activity layout
```

```
        //setContentView(tv1);
```

```
        bu1 = (Button) findViewById(R.id.button1);
```



```
bu2 = (Button) findViewById(R.id.button2);
```

```
bu3 = (Button) findViewById(R.id.button3);
```

```
final RelativeLayout rl = (RelativeLayout) findViewById(R.id.rl1);
```

```
bu1.setOnClickListener(new View.OnClickListener() {
```

```
@TargetApi(Build.VERSION_CODES.JELLY_BEAN)
```

```
@SuppressWarnings("deprecation")
```

```
@Override
```

```
public void onClick(View v) {
```

```
//Drawable dbg = v.getBackground();
```

```
tv1.setText(message);
```

```
rl.setBackgroundColor(getResources().getColor(R.color.Red));
```

```
tv1.setTextColor(getResources().getColor(R.color.White));
```

```
tv1.setTextSize(TypedValue.COMPLEX_UNIT_SP,16);
```

```
Typeface tf = Typeface.SANS_SERIF;
```

```
tv1.setTypeface(tf,Typeface.NORMAL);
```

```
//v.setBackground(dbg);
```

```
bu2.setBackgroundResource(android.R.drawable.btn_default);
```

```
//bu3.setBackgroundResource(android.R.drawable.btn_default);
```

```
Toast msg = Toast.makeText(getBaseContext(), "Theme 1 clicked!!", Toast.LENGTH_LONG);
```

```
msg.setGravity(Gravity.CENTER|Gravity.CENTER_HORIZONTAL, 0, -100);
```

```
msg.show();
```

```
    }
```

```
});
```

```
bu2.setOnClickListener(new View.OnClickListener() {
```

```
@SuppressWarnings("deprecation")
```

```
@Override
```

```
public void onClick(View v) {
```

```

tv1.setText(message);
rl.setBackgroundColor(getResources().getColor(R.color.Green));
tv1.setTextColor(getResources().getColor(R.color.Black));
tv1.setTextSize(24);
//Typeface tf = Typeface.MONOSPACE;
//tv1.setTypeface(tf,Typeface.ITALIC);
Typeface tf = Typeface.createFromAsset(getAssets(), "font/ALGER.TTF");
tv1.setTypeface(tf,Typeface.ITALIC);
//bu1.setBackgroundResource(android.R.drawable.btn_default);
bu2.setBackgroundResource(android.R.drawable.btn_default);
//bu3.setBackgroundResource(android.R.drawable.btn_default);

```

```

Toast msg = Toast.makeText(getBaseContext(), "Theme 2 clicked!!", Toast.LENGTH_LONG);
    msg.setGravity(Gravity.CENTER|Gravity.CENTER_HORIZONTAL, 0, -100);
    msg.show();
}
});

```

```

bu3.setOnClickListener(new View.OnClickListener() {

```

```

@SuppressWarnings("deprecation")

```

```

@Override

```

```

public void onClick(View v) {

```

```

//bu1.setBackgroundResource(android.R.drawable.btn_default);

```

```

bu2.setBackgroundResource(android.R.drawable.btn_default);

```

```

//bu3.setBackgroundResource(android.R.drawable.btn_default);

```

```

rl.setBackgroundColor(getResources().getColor(R.color.Blue));

```

```

tv1.setTextColor(getResources().getColor(R.color.Yellow));

```

```

tv1.setTextSize(32);

```

```

tv1.setText(tamilstr);

```

```

//Typeface tf = Typeface.SERIF;

```

```

//tv1.setTypeface(tf,Typeface.BOLD);

```

```

Typeface tf = Typeface.createFromAsset(getAssets(), "font/TAMIL BIBLE.TTF");

```

```

tv1.setTypeface(tf,Typeface.BOLD);

```

```

Toast msg = Toast.makeText(getBaseContext(), "Theme 3 clicked!!", Toast.LENGTH_LONG);

```

```

msg.setGravity(Gravity.CENTER|Gravity.CENTER_HORIZONTAL, 0, -100);
msg.show();

        }

    });

}

}

```

### **AndroidManifest.xml**

```

<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="in.jacsice.android.guicomponents"
    android:versionCode="1"
    android:versionName="1.0" >

    <uses-sdk
        android:minSdkVersion="8"
        android:targetSdkVersion="23" />

    <application
        android:allowBackup="true"
        android:icon="@drawable/ic_launcher"
        android:label="@string/app_name"
        android:theme="@style/AppTheme" >
        <activity
            android:name=".MainActivity"
            android:label="@string/app_name" >
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
        <activity
            android:name=".ResultActivity"

```

```

        android:label="@string/title_activity_result"
        android:parentActivityName=".MainActivity" >
        <meta-data
            android:name="android.support.PARENT_ACTIVITY"
            android:value="in.jacsice.android.guicomponents.MainActivity" />
    </activity>
</application>

</manifest>

```

### **Button.xml**

```

<?xml version="1.0" encoding="utf-8"?>
<shape xmlns:android="http://schemas.android.com/apk/res/android" android:shape="rectangle" >
    <corners
        android:radius="10dp"
    />
    <gradient
        android:angle="45"
        android:centerX="35%"
        android:centerColor="#198CFF"
        android:startColor="#449DEF"
        android:endColor="#2F6699"
        android:type="linear"
    />
    <padding
        android:left="8dp"
        android:top="3dp"
        android:right="8dp"
        android:bottom="3dp"
    />
    <stroke
        android:width="3dp"
        android:color="#ff62616e"
    />
</shape>

```

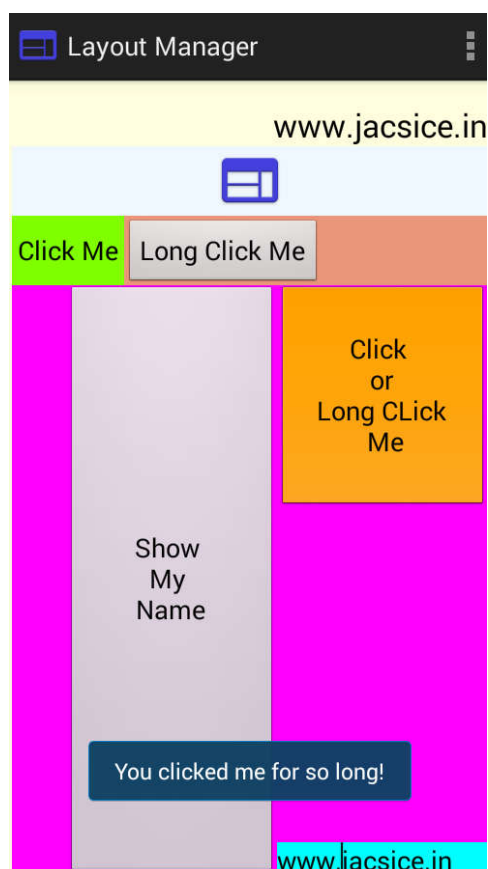
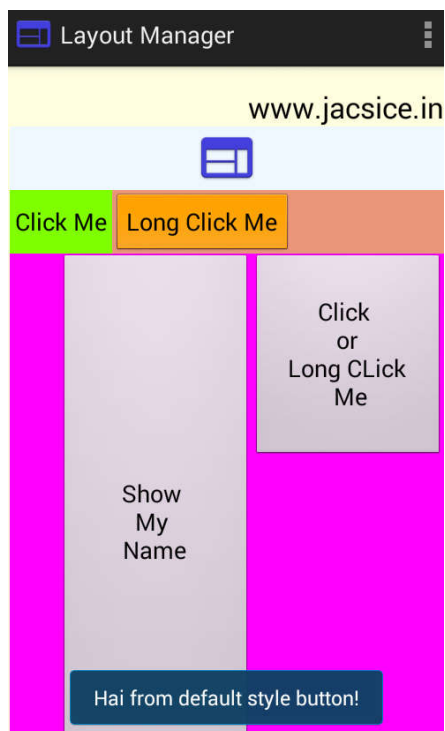
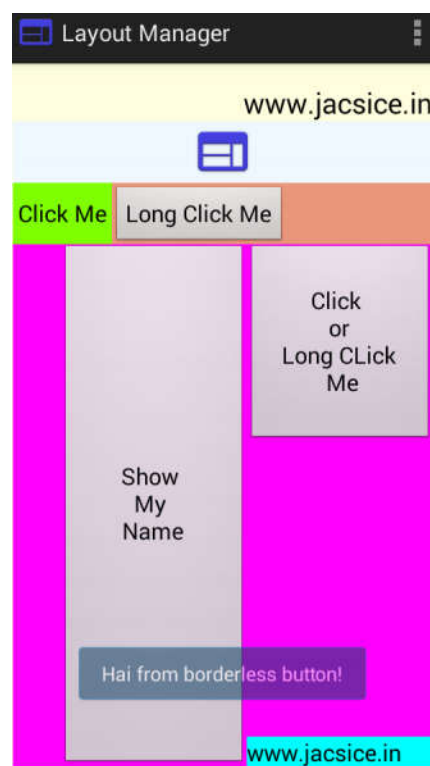
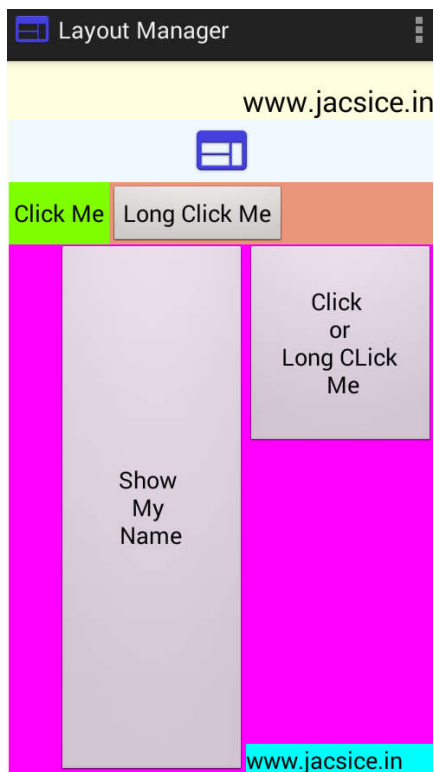
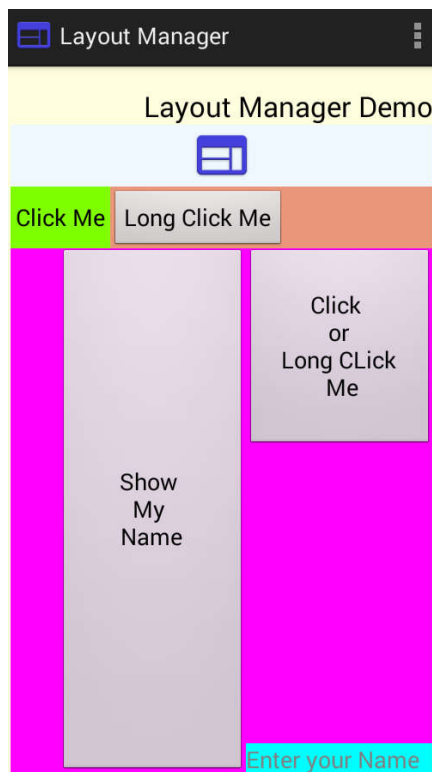
### **Color.xml**

```
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <color name="White">#FFFFFF</color>
    <color name="Yellow">#FFFF00</color>
    <color name="Gold">#FFD700</color>
    <color name="Pink">#FFC0CB</color>
    <color name="Orange">#FFA500</color>
    <color name="Magenta">#FF00FF</color>
    <color name="Red">#FF0000</color>
</resources>
```

### **Strings.xml**

```
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <string name="app_name">GuiComponents</string>
    <string name="hello_world">Hello world!</string>
    <string name="action_settings">Settings</string>
    <string name="btn_name">Login</string>
    <string name="uname">Username :</string>
    <string name="passwd">Password :</string>
    <string name="title">Title :</string>
    <string name="mr">Mr.</string>
    <string name="miss">Miss.</string>
    <string name="ms">Ms.</string>
    <string name="title_activity_result">ResultActivity</string>

    <string name="theme1">Theme 1</string>
    <string name="theme2">Theme 2</string>
    <string name="theme3">Theme 3</string>
</resources>
```



## Activity\_main.xml

```
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@color/LightYellow"
    android:paddingBottom="@dimen/activity_vertical_margin"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    tools:context="in.jacsice.android.layoutmanager.MainActivity" >

    <TextView    android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentEnd="true"
        android:textAppearance="?android:attr/textAppearanceLarge"
        android:text="@string/layoutpgm"
        android:id="@+id/txtSample"
        android:layout_alignParentTop="true"
        android:layout_centerHorizontal="true" />

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="fill_parent"
        android:layout_below="@+id/txtSample"
        android:layout_centerHorizontal="true"
        android:background="@color/AliceBlue"
        android:orientation="vertical" >

        <ImageView    android:id="@+id/imageView"
            android:contentDescription="@string/imagdesc"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
```

```
        android:layout_gravity="center_horizontal"
        android:src="@drawable/ic_launcher" />
```

```
<TableLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:background="@color/DarkSalmon" >
```

```
<TableRow
    android:id="@+id/tableRow"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="horizontal" >
```

```
<Button
    android:id="@+id/btnClick"
    style="?android:attr/buttonBarButtonStyle"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:background="@color/Chartreuse"
    android:text="@string/clickme" />
```

```
<Button
    android:id="@+id/btnLongClick"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:background="@android:drawable/btn_default"
    android:text="@string/longclickme" />
```

```
<!-- style="?android:attr/buttonBarButtonStyle" add this line in the above button to make the button
borderless-->
```

```
</TableRow>
```

```
</TableLayout>
```



<GridLayout

```
    android:id="@+id/lytGrid"
    android:layout_width="match_parent"
    android:layout_height="fill_parent"
    android:background="@color/Magenta" >
```

<Button

```
    android:id="@+id/btnAll"
    android:layout_width="145dp"
    android:layout_height="156dp"
    android:layout_column="3"
    android:layout_columnSpan="1"
    android:layout_row="0"
    android:layout_rowSpan="2"
    android:background="@android:drawable/btn_default"
    android:text="@string/gridlongclick" />
```

<Button

```
    android:id="@+id/btnShowName"
    android:layout_width="145dp"
    android:layout_height="match_parent"
    android:layout_column="2"
    android:layout_row="1"
    android:layout_rowSpan="3"
    android:background="@android:drawable/btn_default"
    android:text="@string/showmyname" />
```

<EditText

```
    android:id="@+id/txtName"
    android:layout_width="145dp"
    android:layout_height="wrap_content"
    android:layout_column="3"
    android:layout_columnSpan="1"
    android:layout_row="3"
    android:layout_rowSpan="1"
```

```
android:background="@color/Aqua"  
android:hint="@string/entername" />
```

```
</GridLayout>
```

```
</LinearLayout>
```

```
</RelativeLayout>
```

### **Strings.xml**

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

```
<resources>
```

```
    <string name="app_name">LayoutManager</string>  
    <string name="hello_world">Hello world!</string>  
    <string name="action_settings">Settings</string>  
    <string name="title_activity_main">Layout Manager</string>  
    <string name="layoutpgm">Layout Manager Demo</string>  
    <string name="imagedesc">Just an Image</string>  
    <string name="clickme">Click Me</string>  
    <string name="longclickme">Long Click Me</string>  
    <string name="gridlongclick">Click \n or \n Long CLick \n Me</string>  
    <string name="showmyname">Show \nMy \nName</string>  
    <string name="entername">Enter your Name</string>
```

```
</resources>
```

### **MainActivity.java**

```
package in.jacsice.android.layoutmanager;
```

```
import android.app.Activity;  
import android.os.Bundle;  
import android.view.Menu;  
import android.view.MenuItem;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;
```

```

import android.widget.TextView;
import android.widget.Toast;

public class MainActivity extends Activity {

    Button clickBtn, longClickBtn, allBtn, btnShow;
    TextView sample;
    EditText nameTxt;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        clickBtn = (Button) findViewById(R.id.btnClick);
        longClickBtn = (Button) findViewById(R.id.btnLongClick);
        allBtn = (Button) findViewById(R.id.btnAll);
        btnShow = (Button) findViewById(R.id.btnShowName);
        sample = (TextView) findViewById(R.id.txtSample);
        nameTxt = (EditText) findViewById(R.id.txtName);

        clickBtn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Toast.makeText(getApplicationContext(), "Hai from borderless button!",
Toast.LENGTH_SHORT).show();
            }
        });

        /*Implement Long Click Listener*/
        longClickBtn.setOnLongClickListener(new View.OnLongClickListener() {
            @Override
            public boolean onLongClick(View v) {
                Toast.makeText(getApplicationContext(), "Hai from default style button!",
                Toast.LENGTH_SHORT).show();
            }
        });
    }
}

```

```
        return false;
    }
});
```

```
allBtn.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        Toast.makeText(getApplicationContext(), "You Just Clicked Me!",
            Toast.LENGTH_SHORT).show();
    }
});
```

```
allBtn.setOnLongClickListener(new View.OnLongClickListener() {
    @Override
    public boolean onLongClick(View v) {
        Toast.makeText(getApplicationContext(), "You clicked me for so long!",
            Toast.LENGTH_SHORT).show();
        return true;
        // return true means to disable event bubble & calling onClick again.
        // return false means, its calls the onClick event again.
    }
});
```

```
btnShow.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        sample.setText(nameTxt.getText().toString());
    }
});
```

```
}
```

```
@Override
public boolean onCreateOptionsMenu(Menu menu) {
    // Inflate the menu; this adds items to the action bar if it is present.
    getMenuInflater().inflate(R.menu.main, menu);
```

```
        return true;
    }
}
```

@Override

```
public boolean onOptionsItemSelected(MenuItem item) {
    // Handle action bar item clicks here. The action bar will
    // automatically handle clicks on the Home/Up button, so long
    // as you specify a parent activity in AndroidManifest.xml.
    int id = item.getItemId();
    if (id == R.id.action_settings) {
        return true;
    }
    return super.onOptionsItemSelected(item);
}
}
```

---



## Activity main.xml

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

```
<LinearLayout
```

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

```
android:orientation="vertical"
```

```
android:layout_width="fill_parent"
```

```
android:layout_height="fill_parent">
```

```
    <LinearLayout
```

```
        android:layout_width="match_parent"
```

```
        android:layout_height="wrap_content"
```

```
        android:id="@+id/linearLayout1"
```

```
        android:layout_marginLeft="10pt"
```

```
        android:layout_marginRight="10pt"
```

```
        android:layout_marginTop="3pt">
```

```
            <EditText
```

```
                android:id="@+id/etNum1"
```

```
                android:layout_width="match_parent"
```

```
                android:layout_height="wrap_content"
```

```
                android:layout_gravity="end"
```

```
                android:gravity="end"
```

```
                android:textAlignment="gravity"
```

```
                android:layout_marginEnd="5pt"
```

```
                android:layout_weight="1"
```

```
                android:inputType="numberDecimal" />
```

```
            <EditText
```

```
                android:id="@+id/etNum2"
```

```
                android:layout_width="match_parent"
```

```
                android:layout_height="wrap_content"
```

```
                android:layout_gravity="end"
```

```
                android:gravity="end"
```

```
                android:textAlignment="gravity"
```

```
                android:layout_marginStart="5pt"
```

```
        android:layout_weight="1"
        android:inputType="numberDecimal"/>
```

```
</LinearLayout>
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/linearLayout2"
    android:layout_marginTop="3pt"
    android:layout_marginLeft="5pt"
    android:layout_marginRight="5pt">
```

```
    <Button
        android:layout_height="wrap_content"
        android:layout_width="match_parent"
        android:layout_weight="1"
        android:text="+"
        android:textSize="8pt"
        android:id="@+id/btnAdd"/>
```

```
    <Button
        android:layout_height="wrap_content"
        android:layout_width="match_parent"
        android:layout_weight="1"
        android:text="-"
        android:textSize="8pt"
        android:id="@+id/btnSub"/>
```

```
    <Button
        android:layout_height="wrap_content"
        android:layout_width="match_parent"
        android:layout_weight="1"
        android:text="*"
        android:textSize="8pt"
```



```
android:id="@+id/btnMul"/>
```

```
<Button
```

```
android:layout_height="wrap_content"
```

```
android:layout_width="match_parent"
```

```
android:layout_weight="1"
```

```
android:text="/"
```

```
android:textSize="8pt"
```

```
android:id="@+id/btnDiv"/>
```

```
</LinearLayout>
```

```
<TextView
```

```
android:layout_height="wrap_content"
```

```
android:layout_width="match_parent"
```

```
android:layout_marginLeft="5pt"
```

```
android:layout_marginRight="5pt"
```

```
android:textSize="12pt"
```

```
android:layout_marginTop="3pt"
```

```
android:id="@+id/tvResult"
```

```
android:gravity="center_horizontal"/>
```

```
<LinearLayout
```

```
android:layout_width="match_parent"
```

```
android:layout_height="wrap_content"
```

```
android:id="@+id/linearLayout3"
```

```
android:layout_marginTop="3pt"
```

```
android:layout_marginLeft="5pt"
```

```
android:layout_marginRight="5pt"
```

```
android:orientation="vertical"
```

```
android:layout_gravity="center_vertical"
```

```
android:gravity="center">
```

```

        <Button
            android:id="@+id/clear"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="@string/clear"
            android:textSize="8pt"
            android:onClick="ClearText" />

```

```

    </LinearLayout>

```

```

</LinearLayout>

```

### **Strings.xml**

```

<?xml version="1.0" encoding="utf-8"?>
<resources>
    <string name="app_name">Simple Calculator</string>
    <string name="hello_world">Hello world!</string>
    <string name="action_settings">Settings</string>
    <string name="clear">C l e a r</string>
    <string name="btnAdd">+</string>
    <string name="btnSub">-</string>
    <string name="btnMul">*</string>
    <string name="btnDiv">/</string>
</resources>

```

### **MainActivity.java**

```

package in.jacsice.android.simplecalculator;

import android.app.Activity;
import android.content.Intent;
import android.os.Bundle;
import android.view.Gravity;
import android.view.Menu;
import android.view.MenuItem;
import android.text.TextUtils;
import android.view.View;
import android.view.View.OnClickListener;

```

```
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.Toast;
```

```
public class MainActivity extends Activity implements OnClickListener {
```

```
    EditText etNum1;
```

```
    EditText etNum2;
```

```
    Button btnAdd;
```

```
    Button btnSub;
```

```
    Button btnMul;
```

```
    Button btnDiv;
```

```
    TextView tvResult;
```

```
    String oper = "";
```

```
    Toast msg;
```

```
@Override
```

```
protected void onCreate(Bundle savedInstanceState) {
```

```
    super.onCreate(savedInstanceState);
```

```
    setContentView(R.layout.activity_main);
```

```
    // find the elements
```

```
    etNum1 = (EditText) findViewById(R.id.etNum1);
```

```
    etNum2 = (EditText) findViewById(R.id.etNum2);
```

```
    btnAdd = (Button) findViewById(R.id.btnAdd);
```

```
    btnSub = (Button) findViewById(R.id.btnSub);
```

```
    btnMul = (Button) findViewById(R.id.btnMul);
```

```
    btnDiv = (Button) findViewById(R.id.btnDiv);
```

```
tvResult = (TextView) findViewById(R.id.tvResult);
```

```
// set a listener
```

```
btnAdd.setOnClickListener((OnClickListener) this);
```

```
btnSub.setOnClickListener(this);
```

```
btnMul.setOnClickListener(this);
```

```
btnDiv.setOnClickListener(this);
```

```
}
```

```
@Override
```

```
public void onClick(View v) {
```

```
    // TODO Auto-generated method stub
```

```
    float num1 = 0;
```

```
    float num2 = 0;
```

```
    float result = 0;
```

```
    // check if the fields are empty
```

```
    // if (TextUtils.isEmpty(etNum1.getText().toString()) ||
```

```
    TextUtils.isEmpty(etNum2.getText().toString()))
```

```
    // {return;}
```

```
    //String n = "N1:"+etNum1.getText().toString() +"\n N2:"+ etNum2.getText().toString();
```

```
    //Toast.makeText(MainActivity.this, n, Toast.LENGTH_LONG).show();
```

```
    if(etNum1.getText().toString().equals("") || etNum1.getText().toString().equals(null))
```

```
{
```

```
    msg = Toast.makeText(MainActivity.this, "Number1 is empty!", Toast.LENGTH_SHORT);
```

```
    msg.setGravity(Gravity.CENTER|Gravity.CENTER_HORIZONTAL, 0, -100);
```

```
        msg.show();
```

```
    etNum1.setFocusable(true);
```

```
    etNum1.setCursorVisible(true);
```

```
    etNum1.requestFocus();
```

```
    return;
```

```
}
```

```
if(etNum2.getText().toString().equals("") || etNum2.getText().toString().equals(null))  
{  
    msg = Toast.makeText(MainActivity.this, "Number2 is empty!", Toast.LENGTH_SHORT);  
    msg.setGravity(Gravity.CENTER|Gravity.CENTER_HORIZONTAL, 0, -200);  
    msg.show();  
    etNum2.setFocusable(true);  
    etNum2.setCursorVisible(true);  
    etNum2.requestFocus();  
    return;  
}
```

```
// read EditText and fill variables with numbers
```

```
num1 = Float.parseFloat(etNum1.getText().toString());
```

```
num2 = Float.parseFloat(etNum2.getText().toString());
```

```
// defines the button that has been clicked and performs the corresponding operation
```

```
// write operation into oper, we will use it later for output
```

```
switch (v.getId()) {
```

```
case R.id.btnAdd:
```

```
    oper = "+";
```

```
    result = num1 + num2;
```

```
    break;
```

```
case R.id.btnSub:
```

```
    oper = "-";
```

```
    result = num1 - num2;
```

```
    break;
```

```
case R.id.btnMul:
```

```
    oper = "*";
```

```
    result = num1 * num2;
```

```
    break;
```

```
case R.id.btnDiv:
```

```
    oper = "/";
```

```
    result = num1 / num2;
```

```

        break;
    default:
        break;
    }
    tvResult.setText(num1 + " " + oper + " " + num2 + " = " + result);
}

public void ClearText(View v){
    etNum1.setText("");
    etNum2.setText("");
    tvResult.setText("");
    etNum1.requestFocus();
}

@Override
public boolean onCreateOptionsMenu(Menu menu) {
    // Inflate the menu; this adds items to the action bar if it is present.
    getMenuInflater().inflate(R.menu.main, menu);
    return true;
}

@Override
public boolean onOptionsItemSelected(MenuItem item) {
    // Handle action bar item clicks here. The action bar will
    // automatically handle clicks on the Home/Up button, so long
    // as you specify a parent activity in AndroidManifest.xml.
    int id = item.getItemId();
    if (id == R.id.action_settings) {
        return true;
    }
    return super.onOptionsItemSelected(item);
}
}

```

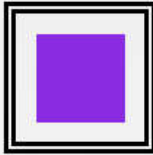
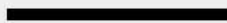


## BasicPrimitives

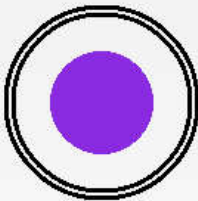
### Graphical Primitive

■ - Point

Drawing Line:



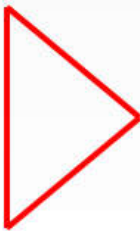
Square



Circle



Rounded Rectangle



## **MainActivity.java**

```
package com.example.basicprimitives;

import android.app.Activity;
import android.os.Bundle;

public class MainActivity extends Activity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        BasicPrimitives drawView = new BasicPrimitives(this);
        setContentView(drawView);

    }

}
```

## **BasicPrimitives.java**

```
package com.example.basicprimitives;

import android.content.Context;
import android.graphics.Canvas;
import android.graphics.Color;
import android.graphics.Paint;
import android.graphics.Path;
import android.graphics.Path.FillType;
import android.graphics.Point;
import android.graphics.RectF;
import android.view.View;

public class BasicPrimitives extends View {

    Paint paint = new Paint();

    public BasicPrimitives(Context context) {

        super(context);

    }

}
```



@Override

```
protected void onDraw(Canvas canvas) {  
    super.onDraw(canvas);  
    paint.setColor(getResources().getColor(R.color.Teal));  
    paint.setTextSize(30);  
    canvas.drawText("Graphical Primitive",50,50,paint);  
    paint.setColor(Color.BLACK);  
    paint.setStrokeWidth(8);  
    canvas.drawPoint(55,90,paint);  
    canvas.drawText(" - Point",58,95,paint);  
    canvas.drawText("Drawing Line:",60,150,paint);  
    paint.setColor(Color.BLACK);  
    canvas.drawLine(60, 180, 210, 180, paint);  
    canvas.drawText("Square",300,260,paint);  
    Paint myPaint = new Paint();  
    myPaint.setColor(Color.rgb(0, 0, 0));  
    myPaint.setStrokeWidth(3);  
    myPaint.setStyle(Paint.Style.STROKE);  
    canvas.drawRect(60, 210, 160, 310, myPaint);  
    canvas.drawRect(65, 215, 155, 305, myPaint);  
    myPaint.setColor(getResources().getColor(R.color.BlueViolet));  
    myPaint.setStyle(Paint.Style.FILL);  
    canvas.drawRect(80, 230, 140, 290, myPaint);  
    canvas.drawText("Circle",300,400,paint);  
    canvas.drawCircle(110, 400, 35, myPaint);  
    myPaint.setStyle(Paint.Style.STROKE);  
    myPaint.setColor(Color.rgb(0, 0, 0));  
    canvas.drawCircle(110, 400, 60, myPaint);  
    canvas.drawCircle(110, 400, 65, myPaint);  
}
```

```
canvas.drawText("Rounded Rectangle",280,550,paint);
canvas.drawRoundRect(new RectF(60, 500, 260, 600), 25, 25, myPaint);
canvas.drawRoundRect(new RectF(65, 505, 255, 595), 23, 23, myPaint);
myPaint.setStyle(Paint.Style.FILL);
myPaint.setColor(getResources().getColor(R.color.BlueViolet));
canvas.drawRoundRect(new RectF(75, 515, 245, 585), 20, 20, myPaint);
```

```
paint.setStrokeWidth(4);
paint.setColor(android.graphics.Color.RED);
paint.setStyle(Paint.Style.STROKE);
paint.setAntiAlias(true);
```

```
Point a = new Point(60, 650);
Point b = new Point(60, 800);
Point c = new Point(150, 725);
```

```
Path path = new Path();
path.setFillType(FillType.EVEN_ODD);
path.moveTo(a.x, a.y);
path.lineTo(b.x, b.y);
path.moveTo(b.x, b.y);
path.lineTo(c.x, c.y);
path.moveTo(c.x, c.y);
path.lineTo(a.x, a.y);
path.close();
canvas.drawPath(path, paint);
```

```
}
```

```
}
```

Employee detail1

Employee Details

Enter Employee ID: 4

Enter Name: Roy

Enter salary: 45000

AddDelete

ModifyView

View All

123

456

789

0

Done

Employee detail1

Employee Details

Employee details Details

Employee id: 1  
Name: Anto  
salary: 25000

Employee id: 2  
Name: king  
salary: 30000

Employee id: 3  
Name: martin  
salary: 35000

Employee id: 4  
Name: Roy  
salary: 45000

Employee detail1

Employee Details

Enter Employee ID:

Enter Name:

Enter salary:

Success

Record added

View All

123

456

789

0

Next

Employee detail1

Employee Details

Enter Employee ID:

Enter Name:

Enter salary:

Error

Please enter Employee id

View All

123

456

789

0

Next

## activity\_main.xml

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

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

```
    android:id="@+id/myLayout"
```

```
    android:stretchColumns="0"
```

```
    android:layout_width="fill_parent"
```

```
    android:layout_height="fill_parent">
```

```
    <TextView    android:text="@string/title"
```

```
        android:layout_x="110dp"
```

```
        android:layout_y="10dp"
```

```
        android:layout_width="wrap_content"
```

```
        android:layout_height="wrap_content"/>
```

```
    <TextView    android:text="@string/empid"
```

```
        android:layout_x="30dp"
```

```
        android:layout_y="50dp"
```

```
        android:layout_width="wrap_content"
```

```
        android:layout_height="wrap_content"/>
```

```
    <EditText    android:id="@+id/editEmpid"
```

```
        android:labelFor="@+id/editEmpid"
```

```
        android:inputType="number"
```

```
        android:layout_x="150dp"
```

```
        android:layout_y="50dp"
```

```
        android:layout_width="150dp"
```

```
        android:layout_height="40dp"/>
```

```
    <TextView    android:text="@string/name"
```

```
        android:layout_x="30dp"
```

```
        android:layout_y="100dp"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"/>
```

```
<EditText    android:id="@+id/editName"
              android:inputType="text"
              android:layout_x="150dp"
              android:layout_y="100dp"
              android:layout_width="150dp"
              android:layout_height="40dp"/>
```

```
<TextView    android:text="@string/salary"
              android:layout_x="30dp"
              android:layout_y="150dp"
              android:layout_width="wrap_content"
              android:layout_height="wrap_content"/>
```

```
<EditText    android:id="@+id/editsalary"
              android:inputType="number"
              android:layout_x="150dp"
              android:layout_y="150dp"
              android:layout_width="150dp"
              android:layout_height="40dp"/>
```

```
<Button      android:id="@+id/btnAdd"
              android:text="@string/add"
              android:layout_x="30dp"
              android:layout_y="200dp"
              android:layout_width="130dp"
              android:layout_height="40dp"/>
```

```
<Button        android:id="@+id/btnDelete"

                android:text="@string/delete"
                android:layout_x="160dp"
                android:layout_y="200dp"
                android:layout_width="130dp"
                android:layout_height="40dp"/>
```

```
<Button        android:id="@+id/btnModify"

                android:text="@string/modify"
                android:layout_x="30dp"
                android:layout_y="250dp"
                android:layout_width="130dp"
                android:layout_height="40dp"/>
```

```
<Button        android:id="@+id/btnView"

                android:text="@string/view"
                android:layout_x="160dp"
                android:layout_y="250dp"
                android:layout_width="130dp"
                android:layout_height="40dp"/>
```

```
<Button        android:id="@+id/btnViewAll"

                android:text="@string/view_all"
                android:layout_x="85dp"
                android:layout_y="300dp"
                android:layout_width="150dp"
                android:layout_height="40dp"/>
```

```
</AbsoluteLayout>
```

## **MainActivity.java**

```
package com.example.dbdemo;

import android.app.AlertDialog.Builder;
import android.content.Context;
import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;
import android.view.View;
import android.view.View.OnClickListener;
import android.widget.Button;
import android.widget.EditText;

import android.os.Bundle;
import android.app.Activity;
import android.view.Menu;
import android.view.MenuItem;

public class MainActivity extends Activity implements OnClickListener {

    EditText editEmpid,editName,editsalary;
    Button btnAdd,btnDelete,btnModify,btnView,btnViewAll;
    SQLiteDatabase db;
    /** Called when the activity is first created. */

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
}
```

```

editEmpid=(EditText)findViewById(R.id.editEmpid);
editName=(EditText)findViewById(R.id.editName);
editsalary=(EditText)findViewById(R.id.editsalary);
btnAdd=(Button)findViewById(R.id.btnAdd);
btnDelete=(Button)findViewById(R.id.btnDelete);
btnModify=(Button)findViewById(R.id.btnModify);
btnView=(Button)findViewById(R.id.btnView);
btnViewAll=(Button)findViewById(R.id.btnViewAll);
btnAdd.setOnClickListener(this);
btnDelete.setOnClickListener(this);
btnModify.setOnClickListener(this);
btnView.setOnClickListener(this);
btnViewAll.setOnClickListener(this);
db=openOrCreateDatabase("EmployeeDB", Context.MODE_PRIVATE, null);
db.execSQL("CREATE TABLE IF NOT EXISTS employee(empid VARCHAR,name
VARCHAR,salary VARCHAR);");
}

```

```

public void onClick(View view)

```

```

{

```

```

if(view==btnAdd)

```

```

{

```

```

if(editEmpid.getText().toString().trim().length()==0||

```

```

editName.getText().toString().trim().length()==0||

```

```

editsalary.getText().toString().trim().length()==0)

```

```

{

```

```

showMessage("Error", "Please enter all values");

```

```

return;

```

```

}

```

```

db.execSQL("INSERT INTO employee VALUES('"+editEmpid.getText()+"','"+editName.getText()+"',
','"+editsalary.getText()+"');");

```

```

showMessage("Success", "Record added");

```



```

clearText();
}
if(view==btnDelete)
{
if(editEmpid.getText().toString().trim().length()==0)
{
showMessage("Error", "Please enter Employee id");
return;
}
Cursor c=db.rawQuery("SELECT * FROM employee WHERE empid='"+editEmpid.getText()+"",
null);
if(c.moveToFirst())
{
db.execSQL("DELETE FROM employee WHERE empid='"+editEmpid.getText()+"");
showMessage("Success", "Record Deleted");
}
else
{
showMessage("Error", "Invalid Employee id");
}
clearText();
}
if(view==btnModify)
{
if(editEmpid.getText().toString().trim().length()==0)
{
showMessage("Error", "Please enter Employee id");
return;
}
Cursor c=db.rawQuery("SELECT * FROM employee WHERE
empid='"+editEmpid.getText()+"", null);
if(c.moveToFirst())

```

```

    {
        db.execSQL("UPDATE employee SET
name='"+editName.getText()+"',salary='"+editsalary.getText()+"' WHERE
empid='"+editEmpid.getText()+"'");

        showMessage("Success", "Record Modified");
    }
    else
    {
        showMessage("Error", "Invalid Rollno");
    }
    clearText();
}
if(view==btnView)
{
    if(editEmpid.getText().toString().trim().length()==0)
    {
        showMessage("Error", "Please enter Employee id");
        return;
    }

    Cursor c=db.rawQuery("SELECT * FROM employee WHERE
empid='"+editEmpid.getText()+"'", null);
    if(c.moveToFirst())
    {
        editName.setText(c.getString(1));
        editsalary.setText(c.getString(2));
    }
    else
    {
        showMessage("Error", "Invalid Employee id");
        clearText();
    }
}
}

```

```

if(view==btnViewAll)
{
Cursor c=db.rawQuery("SELECT * FROM employee", null);
if(c.getCount()==0)
{
    showMessage("Error", "No records found");
    return;
}
StringBuffer buffer=new StringBuffer();
while(c.moveToNext())
{
    buffer.append("Employee id: "+c.getString(0)+"\n");
    buffer.append("Name: "+c.getString(1)+"\n");
    buffer.append("salary: "+c.getString(2)+"\n\n");
}
showMessage("Employee details Details", buffer.toString());
}
}

```

```

public void showMessage(String title,String message)
{
    Builder builder=new Builder(this);
    builder.setCancelable(true);
    builder.setTitle(title);
    builder.setMessage(message);
    builder.show();
}

```

```

public void clearText()
{
    editEmpid.setText("");
}

```

```
editName.setText("");
editsalary.setText("");
editEmpid.requestFocus();
}
```

@Override

```
public boolean onCreateOptionsMenu(Menu menu) {
    // Inflate the menu; this adds items to the action bar if it is present.
    getMenuInflater().inflate(R.menu.main, menu);
    return true;
}
```

@Override

```
public boolean onOptionsItemSelected(MenuItem item) {
    // Handle action bar item clicks here. The action bar will
    // automatically handle clicks on the Home/Up button, so long
    // as you specify a parent activity in AndroidManifest.xml.
    int id = item.getItemId();
    if (id == R.id.action_settings) {
        return true;
    }
    return super.onOptionsItemSelected(item);
}
}
```

## Strings.xml

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

```
<resources>
```

```
    <string name="app_name">Employee detail1</string>
```

```
    <string name="hello_world">Hello world!</string>
```

```
    <string name="action_settings">Settings</string>
```

```
    <string name="title">Employee Details</string>
```

```
        <string name="empid">Enter Employee ID: </string>
```

```
        <string name="name">Enter Name: </string>
```

```
        <string name="salary">Enter salary: </string>
```

```
        <string name="add">Add Employee</string>
```

```
        <string name="delete">Delete Employee</string>
```

```
        <string name="modify">Modify Employee</string>
```

```
        <string name="view">View Employee</string>
```


```
        <string name="view_all">View All Employee</string>
```

```
</resources>
```

RssFeed

RSS example

JACSICE



Title

Link

Description


Fetch

Result

RssFeed

RSS example

JACSICE



Best Search Engine

http://www.google.com

World's best search engine

Fetch

Result

Second

This XML file does not appear to have any style information associated with it. The document tree is shown below.

```

<rss version="2.0">
  <channel>
    <title>Best Search Engine</title>
    <link>http://www.google.com</link>
    <description>World's best search engine</description>
  </channel>
</rss>

```



## activity\_main.xml

```
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:paddingBottom="@dimen/activity_vertical_margin"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    tools:context=".MainActivity" >
```

```
<TextView android:text="RSS example"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/textview"
    android:textSize="35dp"
    android:layout_alignParentTop="true"
    android:layout_centerHorizontal="true" />
```

```
<TextView
    android:id="@+id/textView"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_below="@+id/textview"
    android:layout_centerHorizontal="true"
    android:text="JACSICE"
    android:textColor="#ff7aff24"
    android:textSize="35dp" />
```

```
<ImageView
```

```
android:id="@+id/imageView"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_below="@+id/textView"
android:layout_centerHorizontal="true"
android:src="@drawable/jacsice" />
```

<EditText

```
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:id="@+id/editText"
android:layout_below="@+id/imageView"
android:hint="Title"
android:textColorHint="#ff69ff0e"
android:layout_alignParentRight="true"
android:layout_alignParentEnd="true"
android:layout_alignParentLeft="true"
android:layout_alignParentStart="true" />
```

<EditText

```
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:id="@+id/editText2"
android:layout_below="@+id/editText"
android:layout_alignLeft="@+id/editText"
android:layout_alignStart="@+id/editText"
android:textColorHint="#ff21ff11"
android:hint="Link"
android:layout_alignRight="@+id/editText"
android:layout_alignEnd="@+id/editText" />
```



<EditText

```
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/editText3"
    android:layout_below="@+id/editText2"
    android:layout_alignLeft="@+id/editText2"
    android:layout_alignStart="@+id/editText2"
    android:hint="Description"
    android:textColorHint="#ff33ff20"
    android:layout_alignRight="@+id/editText2"
    android:layout_alignEnd="@+id/editText2" />
```

<Button

```
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Fetch"
    android:id="@+id/button"
    android:layout_below="@+id/editText3"
    android:layout_alignParentLeft="true"
    android:layout_alignParentStart="true"
    android:layout_toLeftOf="@+id/imageView"
    android:layout_toStartOf="@+id/imageView" />
```

<Button

```
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Result"
    android:id="@+id/button2"
    android:layout_alignTop="@+id/button"
    android:layout_alignRight="@+id/editText3"
    android:layout_alignEnd="@+id/editText3" />
```

</RelativeLayout>

## MainActivity.java

```
package com.example.rssfeed;
```

```
import android.app.Activity;
```

```
import android.content.Intent;
```

```
import android.os.Bundle;
```

```
import android.view.Menu;
```

```
import android.view.MenuItem;
```

```
import android.view.View;
```

```
import android.widget.Button;
```

```
import android.widget.EditText;
```

```
public class MainActivity extends Activity {
```

```
    private EditText title, link, description;
```

```
    private Button b1, b2;
```

```
    //private String finalUrl = "http://192.168.1.83:8080/android/ex6/searchengines.xml";
```

```
    private String finalUrl = "http://android.jacsice.in/searchengines.xml";
```

```
    //private String finalUrl = "http://android.jacsice.in/colleges.xml";
```

```
    private HandleXML obj;
```

```
    @Override
```

```
    protected void onCreate(Bundle savedInstanceState) {
```

```
        super.onCreate(savedInstanceState);
```

```
        setContentView(R.layout.activity_main);
```

```
        title = (EditText) findViewById(R.id.editText);
```

```
        link = (EditText) findViewById(R.id.editText2);
```

```
        description = (EditText) findViewById(R.id.editText3);
```

```
        b1 = (Button) findViewById(R.id.button);
```

```

b2 = (Button) findViewById(R.id.button2);
b1.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        obj = new HandleXML(finalUrl);
        obj.fetchXML();

        while (obj.parsingComplete);
        title.setText(obj.getTitle());
        link.setText(obj.getLink());
        description.setText(obj.getDescription());
    }
});

b2.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        Intent in = new Intent(MainActivity.this, Second.class);
        startActivity(in);
    }
});
}
}

```

### **HandleXML.java**

```

package com.example.rssfeed;

import java.io.InputStream;
import java.net.HttpURLConnection;
import java.net.URL;

```

```
import org.xmlpull.v1.XmlPullParser;
import org.xmlpull.v1.XmlPullParserFactory;

public class HandleXML {
    private String title = "title";
    private String link = "link";
    private String description = "description";
    private String urlString = null;
    private XmlPullParserFactory xmlFactoryObject;
    public volatile boolean parsingComplete = true;

    public HandleXML(String url){
        this.urlString = url;
    }

    public String getTitle(){
        return title;
    }

    public String getLink(){
        return link;
    }

    public String getDescription(){
        return description;
    }

    public void parseXMLAndStoreIt(XmlPullParser myParser) {
        int event;
        String text=null;
```

```
try {  
    event = myParser.getEventType();  
  
    while (event != XmlPullParser.END_DOCUMENT) {  
        String name=myParser.getName();  
  
        switch (event){  
            case XmlPullParser.START_TAG:  
                break;  
  
            case XmlPullParser.TEXT:  
                text = myParser.getText();  
                break;  
  
            case XmlPullParser.END_TAG:  
  
                if(name.equals("title")){  
                    title = text;  
                }  
  
                else if(name.equals("link")){  
                    link = text;  
                }  
  
                else if(name.equals("description")){  
                    description = text;  
                }  
  
                else{  
                }  
            }  
        }  
    }  
}
```

```
break;
```

```
}
```

```
event = myParser.next();
```

```
}
```

```
parsingComplete = false;
```

```
}
```

```
catch (Exception e) {
```

```
    e.printStackTrace();
```

```
}
```

```
}
```

```
public void fetchXML(){
```

```
    Thread thread = new Thread(new Runnable(){
```

```
        @Override
```

```
        public void run() {
```

```
            try {
```

```
                URL url = new URL(urlString);
```

```
                HttpURLConnection conn = (HttpURLConnection) url.openConnection();
```

```
                conn.setReadTimeout(10000 /* milliseconds */); // 10000
```

```
                conn.setConnectTimeout(15000 /* milliseconds */); //15000
```

```
                conn.setRequestMethod("GET");
```

```
                conn.setDoInput(true);
```

```
                // Starts the query
```

```
                conn.connect();
```

```

InputStream stream = conn.getInputStream();

xmlFactoryObject = XmlPullParserFactory.newInstance();
XmlPullParser myparser = xmlFactoryObject.newPullParser();

myparser.setFeature(XmlPullParser.FEATURE_PROCESS_NAMESPACES, false);
myparser.setInput(stream, null);

parseXMLAndStoreIt(myparser);
stream.close();
}

catch (Exception e) {
}
}
});
thread.start();
}
}

```

### **activity\_second.xml**

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical" android:layout_width="match_parent"
    android:layout_height="match_parent">

    <WebView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:id="@+id/webView"

```

```
        android:layout_gravity="center_horizontal" />
</LinearLayout>
```

### **SecondActivity.java**

```
package com.example.rssfeed;

import android.app.Activity;
import android.os.Bundle;
import android.webkit.WebView;

public class SecondActivity extends Activity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_second);
        WebView w1=(WebView)findViewById(R.id.webView);
        //w1.loadUrl("http://192.168.1.83:8080/android/ex6/searchengines.xml");
        w1.loadUrl("http://android.jacsice.in/searchengines.xml");
        //w1.loadUrl("http://android.jacsice.in/colleges.xml");
    }
}
```

### **searchengines.xml**

```
<rss version="2.0">
<channel>
<title>Best Search Engine</title>
<link>http://www.google.com</link>
<description>World's best search engine</description>
</channel>
</rss>
```





MultThreadDemo



Start MULTITHREAD

Main thread



MultThreadDemo



Start MULTITHREAD

Main thread

In thread 1 - 0

In thread 2 - 1

In thread 3 - 2

In thread 1 - 3

In thread 2 - 4

In thread 3 - 5

In thread 1 - 6

In thread 2 - 7

In thread 3 - 8

In thread 1 - 9

In thread 2 - 10

In thread 3 - 11

– Already Running

In thread 1 - 12

In thread 2 - 13

In thread 3 - 14

– Finished Run

– Finished Run



## activity\_main.xml

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

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

    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:id="@+id/info" >

    <Button

        android:id="@+id/button1"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:onClick="fetchData"
        android:text="Start MULTITHREAD" />

    <TextView

        android:id="@+id/textView1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Main thread" />

</LinearLayout>
```

## MainActivity.java

```
package com.example.multthreaddemo;

import android.app.Activity;
import android.os.Bundle;
import android.os.Handler;
import android.view.Menu;
import android.view.MenuItem;
import android.view.View;
import android.widget.TextView;

public class MainActivity extends Activity {
```

```

private TextView tvOutput;
private static final int t1 = 1;
private static final int t2 = 2;
private static final int t3 = 3;
private static int counter=0;
private boolean start=true;
private static int ft=0;

@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    tvOutput = (TextView) findViewById(R.id.textView1);
    //below initializations are useful when the application restarts or resumes.
    counter =0;
    start = true;
    ft=0;
}

public void fetchData(View v) {
    if(start){
        tvOutput.setText("Main thread");
        thread1.start();
        thread2.start();
        thread3.start();
        start=false;
    }else{
        if(ft!=3)
            {tvOutput.append("\n -- Already Running");}
        else {tvOutput.append("\n -- Finished Run");}
    }
}

Thread thread1 = new Thread(new Runnable() {

```

@Override

```
public void run() {  
    for (int i = 0; i < 5; i++)  
    {  
        try {  
            Thread.sleep(1000);  
        } catch (InterruptedException e) {  
            e.printStackTrace();  
        }  
        handler.sendMessage(t1);  
    }  
    ft++;  
}  
});
```

Thread thread2 = new Thread(new Runnable() {

@Override

```
public void run() {  
    for (int i = 0; i < 5; i++)  
    {  
        try {  
            Thread.sleep(1000);  
        } catch (InterruptedException e) {  
            e.printStackTrace();  
        }  
        handler.sendMessage(t2);  
    }  
    ft++;  
}  
});
```

Thread thread3 = new Thread(new Runnable() {

@Override

```

public void run() {
    for (int i = 0; i < 5; i++)
    {
        try {
            Thread.sleep(1000);
        } catch (InterruptedException e) {
            e.printStackTrace();
        }
        handler.sendMessage(t3);
    }
    ft++;
}
});

```

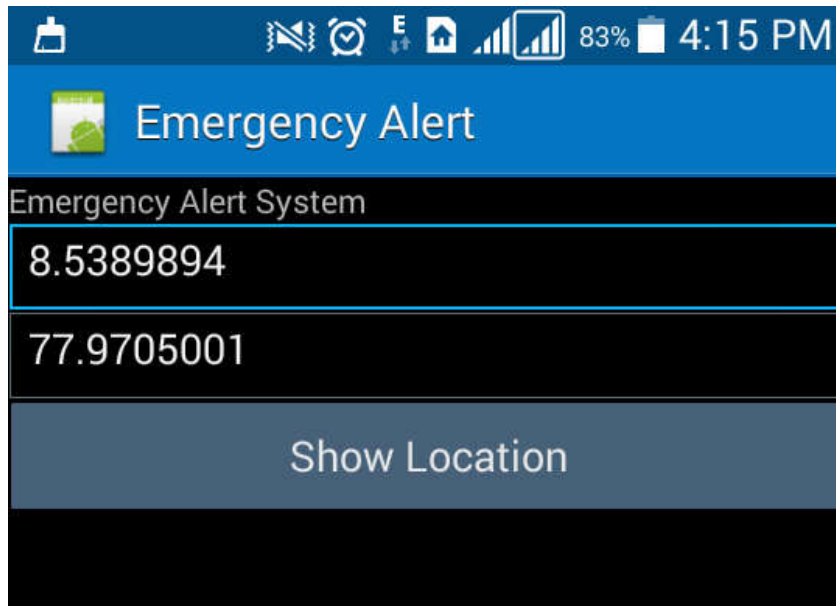
```

Handler handler = new Handler() {
    public void handleMessage(android.os.Message msg) {
        if(msg.what == t1) {
            tvOutput.append("\nIn thread 1" + " - " + (counter++));
        }

        if(msg.what == t2) {
            tvOutput.append("\nIn thread 2" + " - " + (counter++));
        }

        if(msg.what == t3) {
            tvOutput.append("\nIn thread 3" + " - " + (counter++));
        }
    }
};
}

```



**www.gps-coordinates.net** [login](#) | [register](#) [G+1](#) 965 [Follow](#) [Tweet](#)

[Home](#) [Google Maps Directions](#) [Converter](#) [API](#) [Geolocation](#) [Where am I](#) [LatLong](#) [Maps](#) [Custom Map](#)

**Address**

College Rd, Tamil Nadu 628617, India

[Get GPS Coordinates](#)

**DD (decimal degrees)\***

**Latitude**

8.5389895

**Longitude**

77.9705004

[Get Address](#)

**DMS (degrees, minutes, seconds)\***

**Latitude**

☒ N ☐ S 8 ° 32 ' 20.362 ''

**Longitude**

☒ E ☐ W 77 ° 58 ' 13.801 ''

[Get Address](#)

A satellite map view from Google Maps showing a rural area in Tamil Nadu, India. A red pin is placed on a road, and a white information box is overlaid on the map. The box contains the text "College Rd, Tamil Nadu 628617, India" and the coordinates "Latitude: 8.53899 | Longitude: 77.9705". Below the coordinates is a blue button labeled "Get Altitude". The map shows various landmarks and roads, including "Nazareth Rd" and "Thoppur". Other labels on the map include "Vellamadam", "Pilliyanmanai", "Nazareth", "Jeba GnanaPuram", and "Pidanneri". The bottom of the map shows the Google logo and copyright information for 2016.

## **activity\_main.xml**

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent">
    <TextView
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:text="Display GPS Location"/>
    <EditText
        android:id="@+id/editTextLat"
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:gravity="top" />
    <EditText
        android:id="@+id/textlon"
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:gravity="top" />
    <Button
        android:id="@+id/buttonSend"
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:text="Show Location"
        android:onClick="showLocation" />
</LinearLayout>
```

## **MainActivity.java**

```
package com.example.gpslocation;
```

```
import android.app.Activity;
```

```
import android.os.Bundle;
```

```
import android.content.Context;
```

```
import android.location.Location;
```

```
import android.location.LocationListener;
```

```
import android.location.LocationManager;
```

```
import android.view.View;
```

```
import android.widget.EditText;
```

```
import android.widget.Toast;
```

```
public class MainActivity extends Activity {
```

```
    EditText textLat;
```

```
    EditText textlon;
```

```
    @Override
```

```
    protected void onCreate(Bundle savedInstanceState) {
```

```
        super.onCreate(savedInstanceState);
```

```
        setContentView(R.layout.activity_main);
```

```
        textLat = (EditText) findViewById(R.id.editTextLat);
```

```
        textlon = (EditText) findViewById(R.id.textlon);
```

```
        LocationManager mlocManager =
```

```
(LocationManager) getSystemService(Context.LOCATION_SERVICE);
```

```
        LocationListener mlocListener = new MyLocationListener();
```



```
        mlocManager.requestLocationUpdates( LocationManager.GPS_PROVIDER, 0, 0,
mlocListener);

        // two provider: 1.GPS_PROVIDER 2.NETWORK_PROVIDER
// Use GPS_PROVIDER for Emulator, NETWORK_PROVIDER for Mobile data in Mobile.
    }
```

```
public class MyLocationListener implements LocationListener
{
```

```
    public void onLocationChanged(Location loc)
    {
        loc.getLatitude();
        loc.getLongitude();
        Double lat=loc.getLatitude();
        Double lon=loc.getLongitude();
        textLat.setText(lat.toString());
        textlon.setText(lon.toString());
    }
```

```
    public void onProviderDisabled(String provider)
    {
        Toast.makeText( getApplicationContext(),"Gps
Disabled",Toast.LENGTH_SHORT).show();
    }
```

```
    public void onProviderEnabled(String provider)
    {
        Toast.makeText( getApplicationContext(),"Gps
Enabled",Toast.LENGTH_SHORT).show();
    }
```

```

    }

    public void onStatusChanged(String provider, int status, Bundle extras)
    {}

}

public void showLocation(View v){
    Toast.makeText(getApplicationContext(),"Your Location is \nLatitude:
    "+textLat.getText().toString()+"\nLongitude: "+textlon.getText().toString(),
    Toast.LENGTH_LONG).show();
}
}

```

### **AndroidManifest.xml**

```

<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.gpslocation"
    android:versionCode="1"
    android:versionName="1.0" >

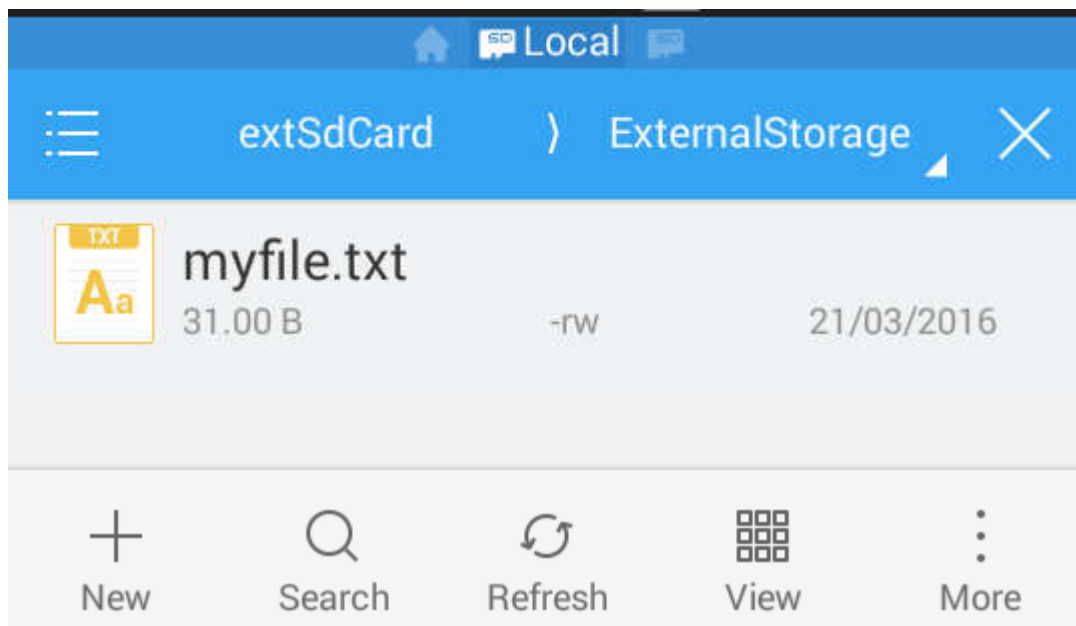
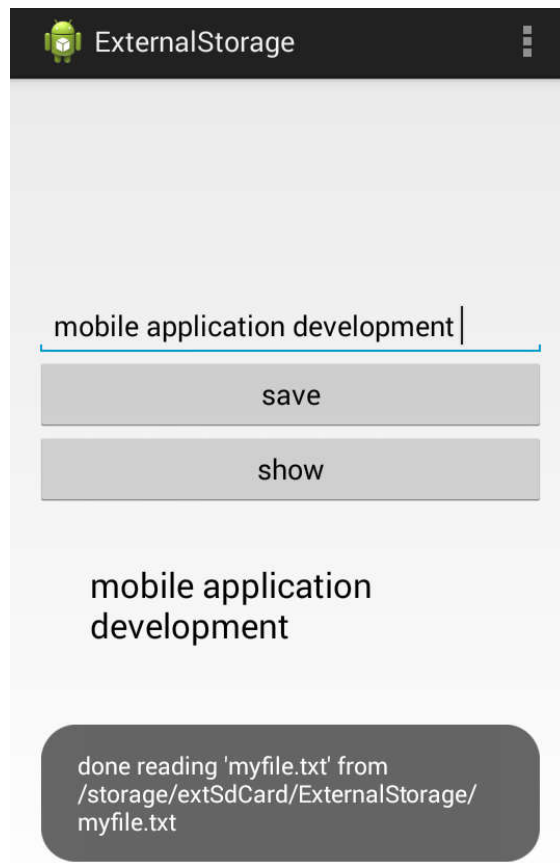
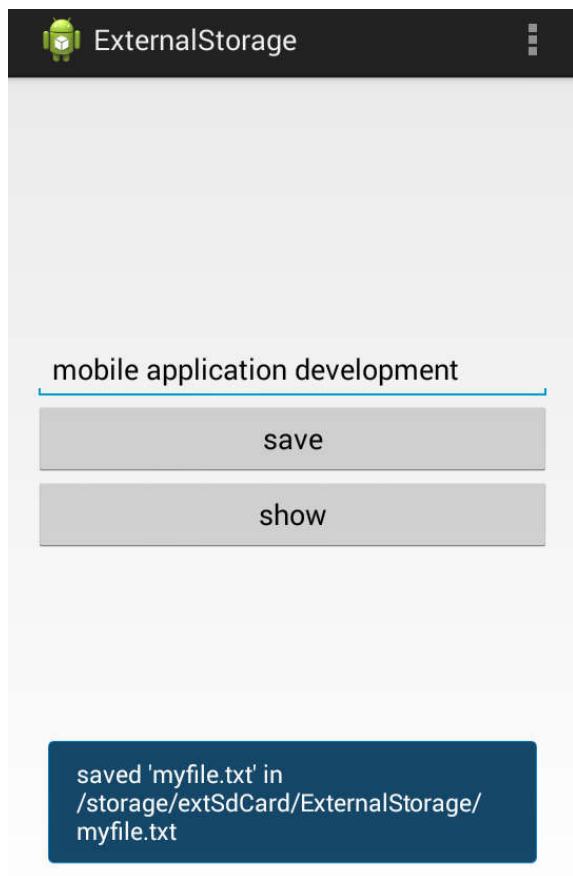
    <uses-sdk
        android:minSdkVersion="17"
        android:targetSdkVersion="17" />

    <uses-permission android:name="android.permission.ACCESS_FINE_LOCATION" />

```

```
<application
    android:allowBackup="true"
    android:icon="@drawable/ic_launcher"
    android:label="@string/app_name"
    android:theme="@style/AppTheme" >
    <activity
        android:name=".MainActivity"
        android:label="@string/app_name" >
        <intent-filter>
            <action android:name="android.intent.action.MAIN" />
            <category android:name="android.intent.category.LAUNCHER" />
        </intent-filter>
    </activity>
</application>
```

```
</manifest>
```



## AndroidManifest.xml

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.writingsdcard"
    android:versionCode="1"
    android:versionName="1.0" >
    <uses-sdk
        android:minSdkVersion="17"
        android:targetSdkVersion="17" />
    <uses-permission android:name="android.permission.READ_EXTERNAL_STORAGE"/>
    <uses-permission android:name="android.permission.WRITE_EXTERNAL_STORAGE"/>
    <application
        android:allowBackup="true"
        android:icon="@drawable/ic_launcher"
        android:label="@string/app_name"
        android:theme="@style/AppTheme" >
        <activity
            android:name=".MainActivity"
            android:label="@string/app_name" >
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />
                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
    </application>
</manifest>
```

## activity\_main.xml

```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/LinearLayout1"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:gravity="center"
    android:orientation="vertical"
    android:paddingBottom="@dimen/activity_vertical_margin"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    tools:context=".MainActivity" >
```

```
<EditText
    android:id="@+id/editText1"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:ems="10" />
```

```
<Button
    android:id="@+id/buttonone"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="save" />
```

<Button

```
    android:id="@+id/buttontwoss"  
    android:layout_width="match_parent"  
    android:layout_height="wrap_content"  
    android:text="show" />
```

<TextView

```
    android:id="@+id/result"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:layout_margin="35dp"  
    android:text=""  
    android:textAppearance="?android:attr/textAppearanceLarge" />
```

</LinearLayout>

### **MainActivity.java**

```
package com.example.writingsdcard;  
  
import java.io.BufferedReader;  
import java.io.File;  
import java.io.FileInputStream;  
import java.io.FileNotFoundException;  
import java.io.FileOutputStream;  
import java.io.IOException;  
import java.io.InputStreamReader;  
import java.io.OutputStreamWriter;  
  
import android.app.Activity;  
import android.os.Bundle;
```

```

import android.os.Environment;
import android.view.Menu;
import android.view.View;
import android.view.View.OnClickListener;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.Toast;

public class MainActivity extends Activity {
    private Button b1, b2;
    private EditText e;
    private String path = Environment.getExternalStorageDirectory().getPath()
        + "/myfile.txt";
    private TextView result;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        b1 = (Button) findViewById(R.id.buttonone);
        b2 = (Button) findViewById(R.id.buttontwoss);
        e = (EditText) findViewById(R.id.editText1);
        result = (TextView) findViewById(R.id.result);

        b1.setOnClickListener(new OnClickListener() {

            @Override
            public void onClick(View arg0) {
                try {
                    File myfile = new File(path);

```



```

        myfile.createNewFile();
        FileOutputStream fos = new FileOutputStream(myfile);
        OutputStreamWriter out = new OutputStreamWriter(fos);
        out.append(e.getText());
        out.close();
        fos.close();
        Toast.makeText(getApplicationContext(),
                        "saved 'myfile.txt' in "+path,
Toast.LENGTH_LONG).show();
    } catch (IOException e) {
        e.printStackTrace();
        Toast.makeText(getApplicationContext(), e.getMessage(),
                        Toast.LENGTH_LONG).show();
    }
}

});

b2.setOnClickListener(new OnClickListener() {

    @Override
    public void onClick(View arg0) {
        try {
            File myFile = new File(path);
            FileInputStream fis = new FileInputStream(myFile);
            BufferedReader bd = new BufferedReader(
                    new InputStreamReader(fis));

            String adata = "";
            String buff = "";
            while ((adata = bd.readLine()) != null) {
                buff += adata + "\n";
            }

            result.setText(buff);

```

```

        bd.close();

        Toast.makeText(getApplicationContext(), "done reding 'myfile.txt from "+path,
                                Toast.LENGTH_LONG).show();
    } catch (FileNotFoundException e) {
        // TODO Auto-generated catch block
        e.printStackTrace();
    } catch (IOException e) {
        // TODO Auto-generated catch block
        e.printStackTrace();
    }
}

});

}

}

```

### **Strings.xml**

```

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

<resources>

    <string name="app_name">writingsdcard</string>

    <string name="hello_world">Hello world!</string>

    <string name="action_settings">Settings</string>

</resources>

```



## BroadcastReceiverNewSms

When new SMS will come it will show a alert message.

✉ VT-VFCARE: Hello, you have 816.10 MB free



## BroadcastReceiverNewSms

When new SMS will come it will show a alert message.

senderNum: VT-VFCARE, message:  
Hello, you have 816.10 MB free usage  
balance valid till 06/Apr/2016 11:59:59  
PM. Charges post free usage will be as  
per your plan.

## AndroidManifest.xml

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

<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.displaynotification"
    android:versionCode="1"
    android:versionName="1.0" >

    <uses-sdk
        android:minSdkVersion="17"
        android:targetSdkVersion="17" />

    <uses-permission android:name="android.permission.RECEIVE_SMS" />
    <uses-permission android:name="android.permission.READ_SMS" />
    <uses-permission android:name="android.permission.SEND_SMS" />

    <application
        android:allowBackup="true"
        android:icon="@drawable/ic_launcher"
        android:label="@string/app_name"
        android:theme="@style/AppTheme" >
        <activity
            android:name=".MainActivity"
            android:label="@string/app_name" >
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
```

```
<receiver android:name="com.example.displaynotification.Notification" >
    <intent-filter>
        <action android:name="android.provider.Telephony.SMS_RECEIVED" />
    </intent-filter>
</receiver>
</application>
```

```
</manifest>
```

### **activity\_main.xml**

```
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:paddingBottom="@dimen/activity_vertical_margin"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    tools:context="com.example.displaynotification.MainActivity" >
```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_centerHorizontal="true"
    android:layout_centerVertical="true"
    android:text="When new SMS will come it will show a alert message." />
```

```
</RelativeLayout>
```

## **MainActivity.java**

```
package com.example.displaynotification;

import android.app.Activity;
import android.os.Bundle;

public class MainActivity extends Activity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
}
```

## **Notification.java**

```
package com.example.displaynotification;

import android.content.BroadcastReceiver;
import android.content.Context;
import android.content.Intent;
import android.os.Bundle;
import android.telephony.SmsManager;
import android.telephony.SmsMessage;
import android.util.Log;
import android.widget.Toast;

public class Notification extends BroadcastReceiver {

    // Get the object of SmsManager
    final SmsManager sms = SmsManager.getDefault();

    public void onReceive(Context context, Intent intent) {
```

```

// Retrieves a map of extended data from the intent.
final Bundle bundle = intent.getExtras();

try {

    if (bundle != null) {

        final Object[] pdusObj = (Object[]) bundle.get("pdus");

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

SmsMessage currentMessage = SmsMessage.createFromPdu((byte[]) pdusObj[i]);
String phoneNumber = currentMessage.getDisplayOriginatingAddress();

            String senderNum = phoneNumber;
            String message = currentMessage.getDisplayMessageBody();

Log.i("SmsReceiver", "senderNum: " + senderNum + "; message: " + message);

            int duration = Toast.LENGTH_LONG;

Toast toast = Toast.makeText(context, "senderNum: " + senderNum + ", message: " + message, duration);
            toast.show();

        } // end for loop
    } // bundle is null

} catch (Exception e) {
    Log.e("SmsReceiver", "Exception smsReceiver" +e);
}
}
}

```



3 Seconds to Alarm



stop\_alarm



Alarmed.



## AndroidManifest.xml

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.alarm_final"
    android:versionCode="1"
    android:versionName="1.0" >
    <uses-sdk
        android:minSdkVersion="8"
        android:targetSdkVersion="17" />
    <application
        android:allowBackup="true"
        android:icon="@drawable/ic_launcher"
        android:label="@string/app_name"
        android:theme="@style/AppTheme" >
        <activity
            android:name="com.example.alarm_final.MainActivity"
            android:label="@string/app_name" >
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />
                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
        <activity
            android:name="com.example.alarm_final.AlarmReceiverActivity"
            android:label="@string/title_activity_alarm_receiver" >
        </activity>
    </application> </manifest>
```

### **activity\_main.xml**

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

<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:id="@+id/r11"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent"
    android:gravity="center"
    android:orientation="vertical" >

    <TextView
        android:id="@+id/test"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="alarm_hello" />

</RelativeLayout>
```

### **MainActivity.java**

```
package com.example.alarm_final;

import java.util.Calendar;
import android.app.Activity;
import android.app.AlarmManager;
import android.app.PendingIntent;
import android.content.Intent;
import android.os.Bundle;
import android.os.Handler;
import android.view.MotionEvent;
import android.view.View;
import android.view.Window;
import android.view.View.OnClickListener;
import android.widget.RelativeLayout;
```

```
import android.widget.TextView;
```

```
public class MainActivity extends Activity implements OnTouchListener {  
    private TextView tv;  
    private static final int t1 = 1;  
    private static final int finished = 2;  
    private static int counter=4;// Current second is 5th second  
    //private static Bundle b;  
    @Override  
    public void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
        //this.b=savedInstanceState;  
        this.requestWindowFeature(Window.FEATURE_NO_TITLE);  
        setContentView(R.layout.activity_main);  
  
        final RelativeLayout rl = (RelativeLayout) findViewById(R.id.rl1);  
        tv = (TextView)findViewById(R.id.test);  
        rl.setOnTouchListener(this);  
        // Create an offset from the current time in which the alarm will go  
        // off.  
        Calendar cal = Calendar.getInstance();  
        cal.add(Calendar.SECOND, 5);  
        tv.setText("Alarm in 5 Seconds");  
        // Create a new PendingIntent and add it to the AlarmManager  
        Intent intent = new Intent(this, AlarmReceiverActivity.class);  
        //startActivity(intent);  
  
        PendingIntent pendingIntent = PendingIntent.getActivity(this, 12345, intent,  
        PendingIntent.FLAG_CANCEL_CURRENT);  
        //pending intent means gets an intent and waits to trigger ro start
```

```

        AlarmManager am = (AlarmManager)
getSystemService(Activity.ALARM_SERVICE);

        am.set(AlarmManager.RTC_WAKEUP, cal.getTimeInMillis(), pendingIntent);

        //AlarmManager.RTC_WAKEUP -- if an application is in closed state, at that
time also the activity is triggered.

        //RTC - real time clock

        startthread(getWindow().getDecorView().getRootView());

    }

    public void startthread(View v){
        tv.setText("Start Running");
        thread1.start();
    }

Thread thread1 = new Thread(new Runnable() {
    @Override
    public void run() {
        for (int i = 0; i < 5; i++)
        {
            try {
                Thread.sleep(1000);
            } catch (InterruptedException e) {
                e.printStackTrace();
            }
            if(counter>0)
                {handler.sendMessage(t1);}
            else {handler.sendMessage(finished);}
        }
    }
});

```

```

Handler handler = new Handler() {
    public void handleMessage(android.os.Message msg) {
        if(msg.what == t1) { tv.setText((counter--)+" Seconds to Alarm");}
        if(msg.what == finished) { tv.setText("Alarmed.");        }
                                }
                                };

public boolean onTouch(View v, MotionEvent event) {
    int action = event.getAction();
    switch(action){
        case MotionEvent.ACTION_DOWN:
            Calendar cal1 = Calendar.getInstance();
            cal1.add(Calendar.SECOND, 5);
            Intent intent1 = new Intent(this, AlarmReceiverActivity.class);
            PendingIntent pendingIntent1 = PendingIntent.getActivity(this, 12345,intent1,
PendingIntent.FLAG_CANCEL_CURRENT);

            AlarmManager am = (AlarmManager)
getSystemService(Activity.ALARM_SERVICE);

            am.set(AlarmManager.RTC_WAKEUP, cal1.getTimeInMillis(), pendingIntent1);
            Thread t1 = new Thread(thread1);
            counter = 4; // Current second is 5th second
            t1.start();

            break;
        }
    return true;
}

}

```