

# ANDROID PROGRAMMING

## 1. Hello World Program ( Write a program to Toast Hello World)

### activity\_main.xml file

```
<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=".ToastMainActivity" >

    <Button
        android:id="@+id/buttonToast"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginLeft="44dp"
        android:layout_marginTop="74dp"
        android:text="Show Toast" />

    </RelativeLayout>
```

### MainActivity.java file

```
package gems.anddoubleos.onetoast;

import android.os.Bundle;
import android.widget.Button;
import android.widget.Toast;
import android.app.Activity;
import android.view.Menu;
import android.view.View;
import android.view.View.OnClickListener;

public class ToastMainActivity extends Activity {
    private Button button;

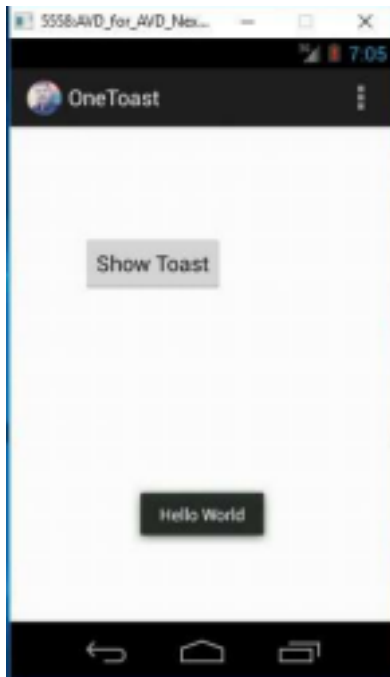
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_toast_main);

        button = (Button) findViewById(R.id.buttonToast);

        button.setOnClickListener(new OnClickListener() {    public
        void onClick(View arg0) {

            Toast.makeText(getApplicationContext(),    "Hello World",
            Toast.LENGTH_LONG).show();    }
        });
    }
}
```

## Output



## 2. Addition of two Numbers (Write a program to add two numbers)

### activity\_main.xml file

```
<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:id="@+id/textView1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentTop="true"
    android:layout_centerHorizontal="true"
    android:layout_marginTop="97dp"
    android:text="Addition"
    android:textAppearance="?android:attr/textAppearanceMedium" />
```

```
<TextView
    android:id="@+id/textView2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentLeft="true"
    android:layout_below="@+id/textView1"
    android:layout_marginLeft="20dp"
    android:layout_marginTop="43dp"
```

```

android:text="Number One"
android:textAppearance="?android:attr/textAppearanceMedium" />

<EditText
android:id="@+id/txtNumber1"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignBottom="@+id/textView2"
android:layout_alignRight="@+id/textView1"
android:ems="2"
android:inputType="number" >

<requestFocus />
</EditText>

<TextView
android:id="@+id/textView3"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignLeft="@+id/textView2"
android:layout_below="@+id/textView2"
android:layout_marginTop="47dp"
android:text="Number Two"
android:textAppearance="?android:attr/textAppearanceMedium" />

<Button
android:id="@+id/btnAdd"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignLeft="@+id/textView3"
android:layout_alignRight="@+id/textView3"
android:layout_below="@+id/textView3"
android:layout_marginTop="46dp"
android:text="Add" />

<EditText
android:id="@+id/txtNumber2"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_above="@+id/btnAdd"
android:layout_alignLeft="@+id/txtNumber1"
android:ems="2"
android:inputType="number" />

<TextView
android:id="@+id/txtResult"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignRight="@+id/txtNumber2"
android:layout_alignTop="@+id/btnAdd"
android:textAppearance="?android:attr/textAppearanceMedium" />

</RelativeLayout>

```

## MainActivity.java file

```
package com.andoubleos.twosum;
import android.os.Bundle;
import android.app.Activity;
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;

public class MainActivity extends Activity {

    EditText firstNumber;
    EditText secondNumber;
    TextView addResult;
    Button btnAdd;

    double num1, num2, sum;

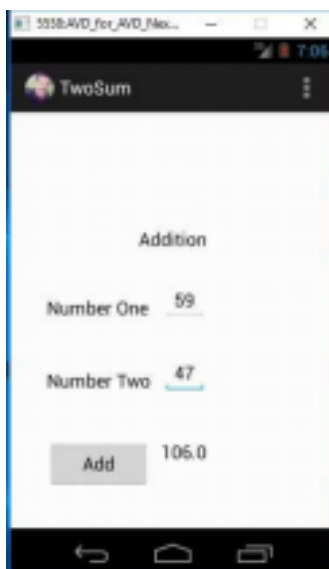
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        firstNumber = (EditText) findViewById(R.id.txtNumber1);
        secondNumber = (EditText) findViewById(R.id.txtNumber2);
        addResult = (TextView) findViewById(R.id.txtResult);    btnAdd =
        (Button) findViewById(R.id.btnAdd);

        btnAdd.setOnClickListener(new OnClickListener() {

            public void onClick(View v) {
                num1 = Double.parseDouble(firstNumber.getText().toString());    num2 =
                Double.parseDouble(secondNumber.getText().toString());    sum = num1 + num2;
                addResult.setText(Double.toString(sum));
            }
        });
    }
}
```

## Output



### 3. Date and Time Dialog box( Write a program to display date and time using dialog box)

#### activity\_main.xml file

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    android:id="@+id/widget28"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent"
    android:orientation="vertical"
    xmlns:android="http://schemas.android.com/apk/res/android">
    <TextView
        android:id="@+id/lblDateAndTime"
        android:layout_width="fill_parent"
        android:layout_height="67dp"
        android:background="#FFFFFF"
        android:textStyle="bold">
    </TextView>
    <Button
        android:id="@+id/btnDate"
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:text="Set the Date">
    </Button>

    <Button
        android:id="@+id/btnTime"
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:text="Set the Time" />

</LinearLayout>
```

#### MainActivity.java file

```
package gems.anddoubleos.threedateandtime;

import android.app.Activity;
import android.os.Bundle;
import android.app.DatePickerDialog;
import android.app.TimePickerDialog;
import android.view.View;
import android.widget.Button;
import android.widget.DatePicker;
import android.widget.TimePicker;
import android.widget.TextView;
import java.text.DateFormat;
import java.util.Calendar;

public class MainActivity extends Activity {
    DateFormat fmtDateAndTime = DateFormat.getDateTimeInstance();
    TextView lblDateAndTime;
    Calendar myCalendar = Calendar.getInstance();

    DatePickerDialog.OnDateSetListener d = new DatePickerDialog.OnDateSetListener() {
        public void onDateSet(DatePicker view, int year, int monthOfYear,
int dayOfMonth) {
            myCalendar.set(Calendar.YEAR, year);
            myCalendar.set(Calendar.MONTH, monthOfYear);
            myCalendar.set(Calendar.DAY_OF_MONTH, dayOfMonth);
            updateLabel();
        }
    };
};
```

```

TimePickerDialog.OnTimeSetListener t = new TimePickerDialog.OnTimeSetListener() {
    public void onTimeSet(TimePicker view, int hourOfDay, int minute) {
myCalendar.set(Calendar.HOUR_OF_DAY, hourOfDay);

myCalendar.set(Calendar.MINUTE, minute);
updateLabel();
}
};

private void updateLabel() {
lblDateAndTime.setText(fmtDateAndTime.format(myCalendar.getTime()));
}

@Override
public void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    lblDateAndTime = (TextView) findViewById(R.id.lblDateAndTime);
    Button btnDate = (Button) findViewById(R.id.btnDate);

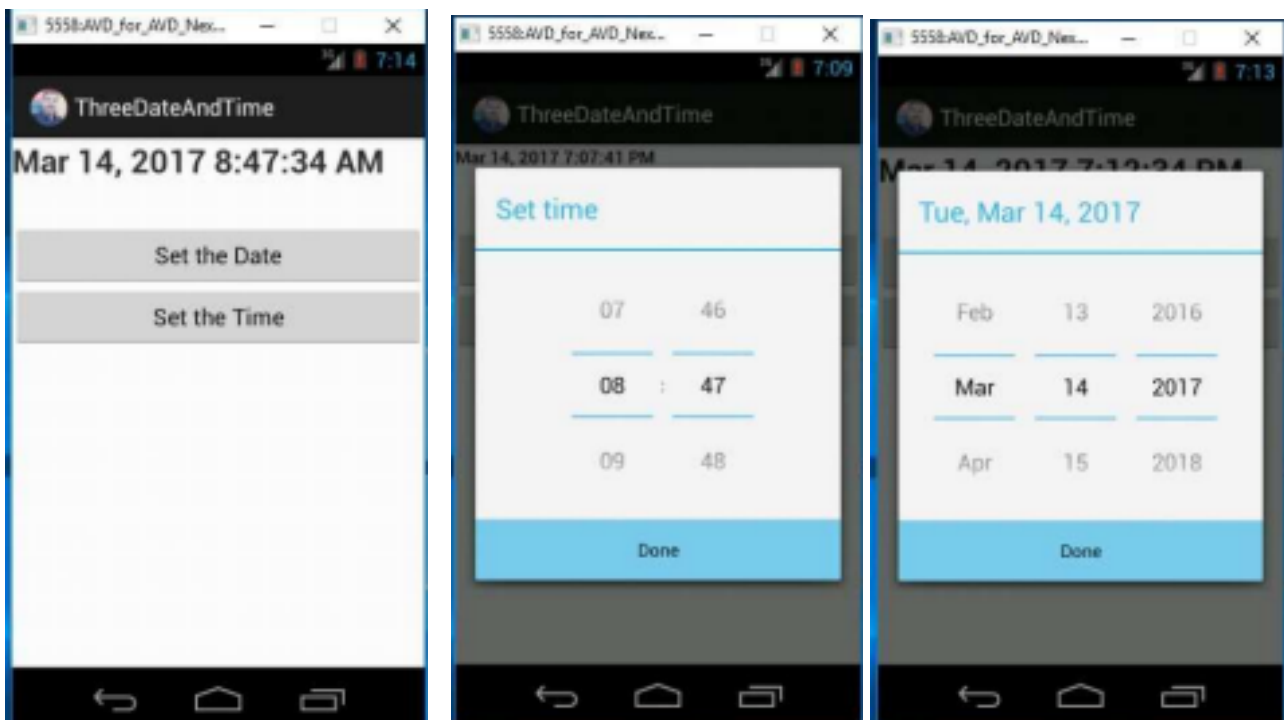
    btnDate.setOnClickListener(new View.OnClickListener() {
        public void onClick(View v) {
            new DatePickerDialog(MainActivity.this, d, myCalendar .get(Calendar.YEAR),
myCalendar.get(Calendar.MONTH), myCalendar.get(Calendar.DAY_OF_MONTH)).show();
        }
    });

    Button btnTime = (Button) findViewById(R.id.btnTime);
    btnTime.setOnClickListener(new View.OnClickListener() {
        public void onClick(View v) {
            new TimePickerDialog(MainActivity.this, t, myCalendar
.get(Calendar.HOUR_OF_DAY), myCalendar .get(Calendar.MINUTE),
true).show();
        }
    });

    updateLabel();
}
}

```

## Output



4.

## Alert Box (Write a program to Display an alert box with OK and Cancel)

### activity\_main.xml file

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

    <Button
        android:id="@+id/buttonAlert"
        android:layout_width="wrap_content"

        android:layout_height="wrap_content"
        android:text="Show Alert Box" />

</LinearLayout>
```

### MainActivity.java file

```
package gems.anddoubleos.fouralertbox;

import android.app.Activity;
import android.app.AlertDialog;
import android.content.Context;
import android.content.DialogInterface;
import android.os.Bundle;
import android.view.View;
import android.view.View.OnClickListener;
import android.widget.Button;

public class MainActivity extends Activity {

    final Context context = this;
    private Button button;

    public void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        button = (Button) findViewById(R.id.buttonAlert);

        // add button listener
        button.setOnClickListener(new OnClickListener() {

            @Override
            public void onClick(View arg0) {

                AlertDialog.Builder alertDialogBuilder = new AlertDialog.Builder( context);

                // set title
                alertDialogBuilder.setTitle("Your Title");

                // set dialog message
                alertDialogBuilder
                    .setMessage("Click yes to exit!")
                    .setCancelable(false)
                    .setPositiveButton("Yes",new DialogInterface.OnClickListener() {
                        public void onClick(DialogInterface dialog,int id) { // if this button is
                            clicked, close // current activity
                                MainActivity.this.finish();
                            }
                    })
                    .setNegativeButton("No",new DialogInterface.OnClickListener() {
                        public void onClick(DialogInterface dialog,int id) { // if this button is
                            clicked, just close
                                // current activity
                                MainActivity.this.finish();
                            }
                    });
            }
        });
    }
}
```

```

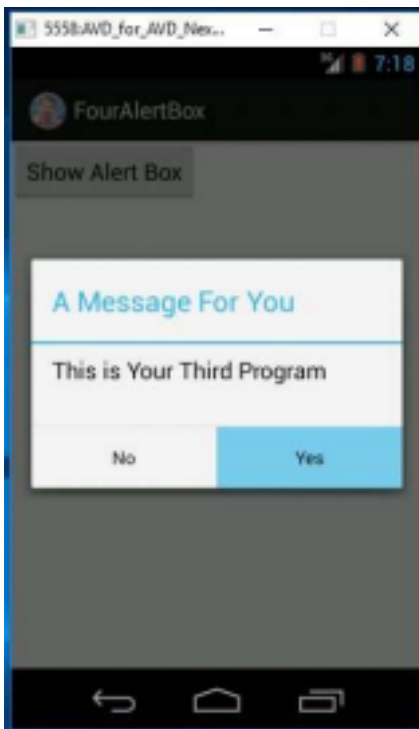
// the dialog box and do nothing  dialog.cancel();
}
});

// create alert dialog
AlertDialog alertDialog = alertDialogBuilder.create();

// show it
alertDialog.show();
}
});
}
}
}

```

## Output



### 5. Menu Program(Write a Program to create menu with three menu items)

#### activity\_main.xml file

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical"
    android:padding="10dip"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content">

    <TextView
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="10dip"
        android:text="Category: "
        android:layout_marginBottom="5dp"/>
    <Spinner
        android:id="@+id/spinner"
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:prompt="@string/spinner_title"/>

```



```
</LinearLayout>
```

## MainActivity.java file

```
package gems.anddoubleos.spinner;

import java.util.ArrayList;
import java.util.List;
import android.app.Activity;
import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.ArrayAdapter;
import android.widget.Spinner;
import android.widget.Toast;

class AndroidSpinnerExampleActivity extends Activity implements
OnItemSelectedListener{
    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        // Spinner element
        Spinner spinner = (Spinner) findViewById(R.id.action_settings);
        // Spinner click listener
        spinner.setOnItemSelectedListener(this);

        // Spinner Drop down elements
        List<String> categories = new ArrayList<String>();
        categories.add("Automobile");
        categories.add("Business Services");
        categories.add("Computers");
        categories.add("Education");
        categories.add("Personal");
        categories.add("Travel");

        ArrayAdapter<String> dataAdapter = new ArrayAdapter<String>(this,
        android.R.layout.simple_spinner_item, categories);

        dataAdapter.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_item);
        spinner.setAdapter(dataAdapter);
    }
    @Override
    public void onItemClick(AdapterView<?> parent, View view, int position, long id) {
        String item = parent.getItemAtPosition(position).toString();
        Toast.makeText(parent.getContext(), "Selected: " + item,
        Toast.LENGTH_LONG).show();
    }
    public void onNothingSelected(AdapterView<?> arg0) {
    }
}
```

## Output



### 6. Radio Button(Write a Program to Select gender using radio button)

#### activity\_main.xml file

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

    <RadioGroup
        android:id="@+id/radioSex"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content" >

        <RadioButton
            android:id="@+id/radioMale"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="@string/radio_male"
            android:checked="true" />

        <RadioButton
            android:id="@+id/radioFemale"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="@string/radio_female" />

    </RadioGroup>

    <Button
        android:id="@+id/btnDisplay"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/btn_display" />

</LinearLayout>
```

## MainActivity.java file

```
package gems.anddoubleos.sixradiobutton;

import android.app.Activity;
import android.os.Bundle;
import android.view.View;
import android.view.View.OnClickListener;
import android.widget.Button;
import android.widget.RadioButton;
import android.widget.RadioGroup;
import android.widget.Toast;

public class MainActivity extends Activity {

    private RadioGroup radioSexGroup;
    private RadioButton radioSexButton;
    private Button btnDisplay;
    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        addListenerOnButton();
    }

    public void addListenerOnButton() {

        radioSexGroup = (RadioGroup) findViewById(R.id.radioSex);
        btnDisplay = (Button) findViewById(R.id.btnDisplay);

        btnDisplay.setOnClickListener(new OnClickListener() {

            @Override
            public void onClick(View v) {

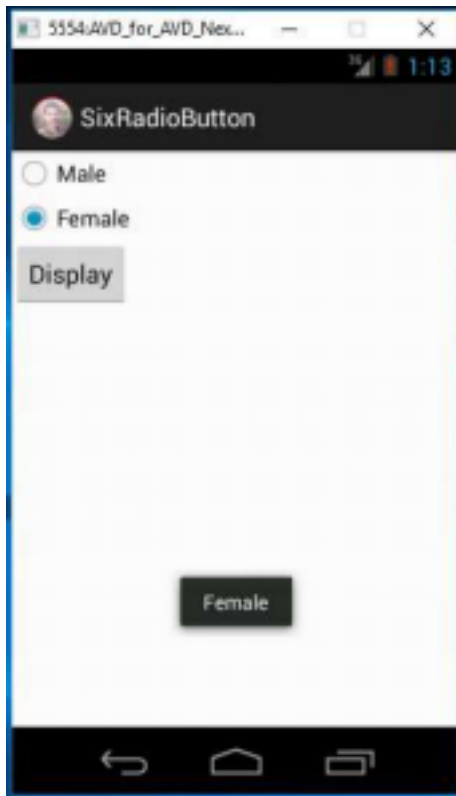
                // get selected radio button from radioGroup int selectedId =
                radioSexGroup.getCheckedRadioButtonId();

                // find the radiobutton by returned id

                radioSexButton = (RadioButton) findViewById(selectedId);

                Toast.makeText(MainActivity.this,
                    radioSexButton.getText(), Toast.LENGTH_SHORT).show();
            }
        });
    }
}
```

## Output



### 7. Spinner(Write a Program To Spin the four items)

#### activity\_main.xml file

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    android:id="@+id/myLinearLayout"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent"
    android:orientation="vertical"
    xmlns:android="http://schemas.android.com/apk/res/android">
    <TextView
        android:id="@+id/selection"
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:background="#ff0033cc"
        android:textColor="#ff0000"
        android:textSize="25dp"
        android:textStyle="bold">
    </TextView>

    <Spinner
        android:id="@+id/spinner"
        android:layout_width="fill_parent"
        android:layout_height="wrap_content">
    </Spinner>
</LinearLayout>
```

#### MainActivity.java file

```
package gems.andoubleos.sevenspinnercontrol;
import android.app.Activity;
import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.AdapterView;
import android.widget.ArrayAdapter;
import android.widget.Spinner;
import android.widget.TextView;
```

```

public class MainActivity extends Activity implements
    AdapterView.OnItemClickListener {
    TextView selection;
    String[] items = { "an double os", "COMPUTER", "MOUSE", "KEYBOARD", "MONITOR",
"HARD DISK", "LAPTOP", "PRINTER", "SCANNER", "SPEAKER" };

    @Override
    public void onCreate(Bundle icle) {
        super.onCreate(icle);
        setContentView(R.layout.activity_main);
        selection = (TextView) findViewById(R.id.selection);

        Spinner spin = (Spinner) findViewById(R.id.spinner);
        spin.setOnItemSelectedListener(this);

        ArrayAdapter aa = new
        ArrayAdapter(this, android.R.layout.simple_spinner_item, items);

        aa.setDropDownViewResource(
        android.R.layout.simple_spinner_dropdown_item);
        spin.setAdapter(aa);
    }

    public void onItemClick(AdapterView<?> parent, View v, int position,
long id) {
        selection.setText(items[position]);
    }

    public void onNothingSelected(AdapterView<?> parent) {
        selection.setText("");
    }
}

```

## Output



## 8. Timer Program (Write a Program to display Stop watch)

### activity\_main.xml file

```
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:background="#000000"
    android:layout_height="match_parent" >

    <TextView
        android:id="@+id/timerValue"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_above="@+id/pauseButton"
        android:layout_centerHorizontal="true"
        android:layout_marginBottom="37dp"
        android:textSize="40sp"
        android:textColor="#ffffff"
        android:text="@string/timerVal" />

    <Button
        android:id="@+id/startButton"
        android:layout_width="90dp"
        android:layout_height="45dp"
        android:layout_alignParentLeft="true"
        android:layout_centerVertical="true"
        android:layout_marginLeft="38dp"
        android:text="@string/startButtonLabel" />

    <Button
        android:id="@+id/pauseButton"
        android:layout_width="90dp"
        android:layout_height="45dp"
        android:layout_alignBaseline="@+id/startButton"
        android:layout_alignBottom="@+id/startButton"
        android:layout_alignParentRight="true"
        android:layout_marginRight="38dp"
        android:text="@string/pauseButtonLabel" />

    <Button
        android:id="@+id/resetButton"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@+id/startButton"
        android:layout_marginTop="28dp"
        android:layout_toLeftOf="@+id/pauseButton"
        android:text="@string/resetButtonLabel" />

</RelativeLayout>
```

### MainActivity.java file

```
package gems.andoubleos.eightstopwatch;

import android.app.Activity;
import android.os.Bundle;
import android.os.Handler;
import android.os.SystemClock;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;
```

```

public class MainActivity extends Activity {

    private Button startButton;
    private Button pauseButton;
    private Button resetButton;

    private TextView timerValue;

    private long startTime = 0L;

    private Handler customHandler = new Handler();
    long timeInMilliseconds = 0L;
    long timeSwapBuff = 0L;
    long updatedTime = 0L;

    @Override
    public void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        timerValue = (TextView) findViewById(R.id.timerValue);

        startButton = (Button) findViewById(R.id.startButton);
        startButton.setOnClickListener(new View.OnClickListener() {
            public void onClick(View view) {
                startTime = SystemClock.uptimeMillis();
                customHandler.postDelayed(updateTimerThread, 0);
            }
        });
        resetButton = (Button) findViewById(R.id.resetButton);
        resetButton.setOnClickListener(new View.OnClickListener() { @Override
            public void onClick(View view) {

                /* MillisecondTime = 0L ;
                StartTime = 0L ;
                TimeBuff = 0L ;
                UpdateTime = 0L ;
                Seconds = 0 ;
                Minutes = 0 ;
                MilliSeconds = 0 ; */

                timerValue.setText("00:00:00");

                // adapter.notifyDataSetChanged();
            }
        });
        pauseButton = (Button) findViewById(R.id.pauseButton);
        pauseButton.setOnClickListener(new View.OnClickListener() {
            public void onClick(View view) {

                timeSwapBuff += timeInMilliseconds;
                customHandler.removeCallbacks(updateTimerThread);
            }
        });
    }
}

```

```

        private Runnable updateTimerThread = new Runnable() {

public void run() {

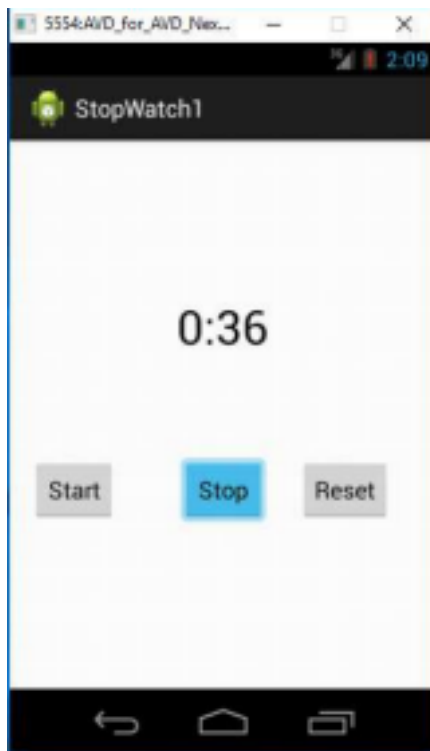
    timeInMilliseconds = SystemClock.uptimeMillis() - startTime;
    updatedTime = timeSwapBuff + timeInMilliseconds;

    int secs = (int) (updatedTime / 1000);
    int mins = secs / 60;

secs = secs % 60;
    int milliseconds = (int) (updatedTime % 1000);
    timerValue.setText("" + mins + ":"
        + String.format("%02d", secs) + ":" + String.format("%03d",
milliseconds));    customHandler.postDelayed(this, 0);
    }
};
}

```

## Output



## 9. Check box(Write a Program to check the items listed)

### activity\_main.xml file

```

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

    <CheckBox
        android:id="@+id/android"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/chk_first" />

```



```

<CheckBox
    android:id="@+id/java"
    android:layout_width="wrap_content"

    layout_height="wrap_content"
    android:text="@string/chk_second"
    android:checked="true" />

    <CheckBox
        android:id="@+id/opencv"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/chk_third" />
    <CheckBox
        android:id="@+id/symbian"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/chk_fourth" />
    <Button
        android:id="@+id/Clickhere"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/btn_click" />
</LinearLayout>

```

## MainActivity.java file

```

package gems.anddoubleos.ninecheckbox;

import android.app.Activity;
import android.os.Bundle;
import android.view.View;
import android.view.View.OnClickListener;
import android.widget.Button;
import android.widget.CheckBox;
import android.widget.Toast;

public class MainActivity extends Activity {

    private CheckBox android, java, opencv, symbian;
    private Button Clickhere;

    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        android = (CheckBox) findViewById(R.id.android); java =
        (CheckBox) findViewById(R.id.java); opencv = (CheckBox)
        findViewById(R.id.opencv); symbian = (CheckBox)
        findViewById(R.id.symbian); Clickhere = (Button)
        findViewById(R.id.Clickhere);

        Clickhere.setOnClickListener(new OnClickListener() {
            @Override
            public void onClick(View v) {

```

```
// Create string buffer to

StringBuffer OUTPUT = new StringBuffer();
OUTPUT.append("Android : ")
.append(android.isChecked());

OUTPUT.append("\nJava : ").append(
java.isChecked());

OUTPUT.append("\nOpenCV :").append(
opencv.isChecked());

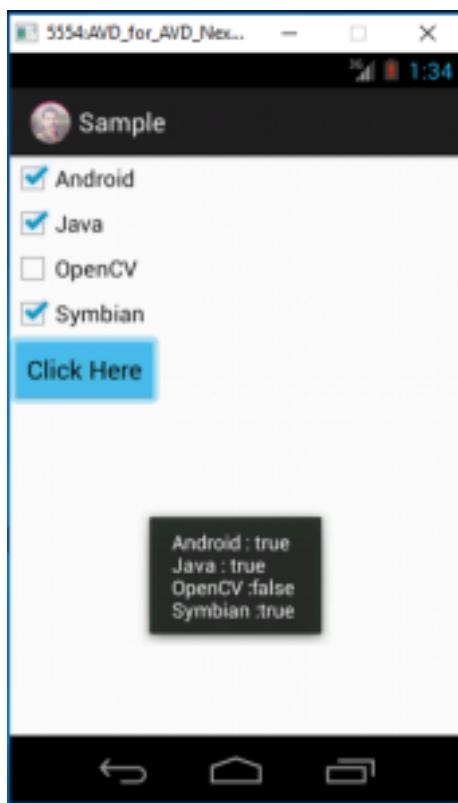
OUTPUT.append("\nSymbian :").append(
symbian.isChecked());

Toast.makeText(MainActivity.this, OUTPUT.toString(),
Toast.LENGTH_LONG).show();

}
});

}
}
```

## Output



## 10. Date Time Picker(Write a Program to Select current system time using date time picker)

### activity\_main.xml file

```
<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:paddingLeft="@dimen/activity_horizontal_margin"
        android:paddingRight="@dimen/activity_horizontal_margin"
        android:paddingTop="@dimen/activity_vertical_margin"
        android:paddingBottom="@dimen/activity_vertical_margin"
    tools:context=".MainActivity">

    <EditText
        android:layout_width="200dp"
        android:layout_height="wrap_content"
        android:id="@+id/in_date"
        android:layout_marginTop="82dp"
        android:layout_alignParentTop="true"
        android:layout_alignParentLeft="true"
        android:layout_alignParentStart="true" />

    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/sel_date"
        android:id="@+id/btn_date"
        android:layout_alignBottom="@+id/in_date"
        android:layout_toRightOf="@+id/in_date"
        android:layout_toEndOf="@+id/in_date" />

    <EditText
        android:layout_width="200dp"
        android:layout_height="wrap_content"
        android:id="@+id/in_time"
        android:layout_below="@+id/in_date"
        android:layout_alignParentLeft="true"
        android:layout_alignParentStart="true" />

    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/sel_time"
        android:id="@+id/btn_time"
        android:layout_below="@+id/btn_date"
        android:layout_alignLeft="@+id/btn_date"
        android:layout_alignStart="@+id/btn_date" />

</RelativeLayout>
```

### MainActivity.java file

```
package gems.anddoubleos.tencurrentsystemtime;

import android.app.DatePickerDialog;
import android.app.TimePickerDialog;
import android.app.Activity;
import android.os.Bundle;
```

```

import android.view.View;
import android.widget.Button;
import android.widget.DatePicker;
import android.widget.EditText;
import android.widget.TimePicker;

import java.util.Calendar;

public class MainActivity extends Activity implements
    View.OnClickListener {

    Button btnDatePicker, btnTimePicker;
    EditText txtDate, txtTime;
    private int mYear, mMonth, mDay, mHour, mMinute;

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

        btnDatePicker=(Button)findViewById(R.id.btn_date);
        btnTimePicker=(Button)findViewById(R.id.btn_time);
        txtDate=(EditText)findViewById(R.id.in_date);
        txtTime=(EditText)findViewById(R.id.in_time);

        btnDatePicker.setOnClickListener(this);
        btnTimePicker.setOnClickListener(this);

    }

    @Override
    public void onClick(View v) {

        if (v == btnDatePicker) {

            // Get Current Date
            final Calendar c = Calendar.getInstance();
            mYear = c.get(Calendar.YEAR);
            mMonth = c.get(Calendar.MONTH);
            mDay = c.get(Calendar.DAY_OF_MONTH);

            DatePickerDialog datePickerDialog = new DatePickerDialog(this, new
            DatePickerDialog.OnDateSetListener() {

                @Override
                public void onDateSet(DatePicker view, int year, int monthOfYear, int
                dayOfMonth) {

                    txtDate.setText(dayOfMonth + "-" + (monthOfYear + 1) + "-" + year);

                }
            }, mYear, mMonth, mDay);
            datePickerDialog.show();
        }
        if (v == btnTimePicker) {

```

```

// Get Current Time
final Calendar c = Calendar.getInstance();
mHour = c.get(Calendar.HOUR_OF_DAY);
mMinute = c.get(Calendar.MINUTE);

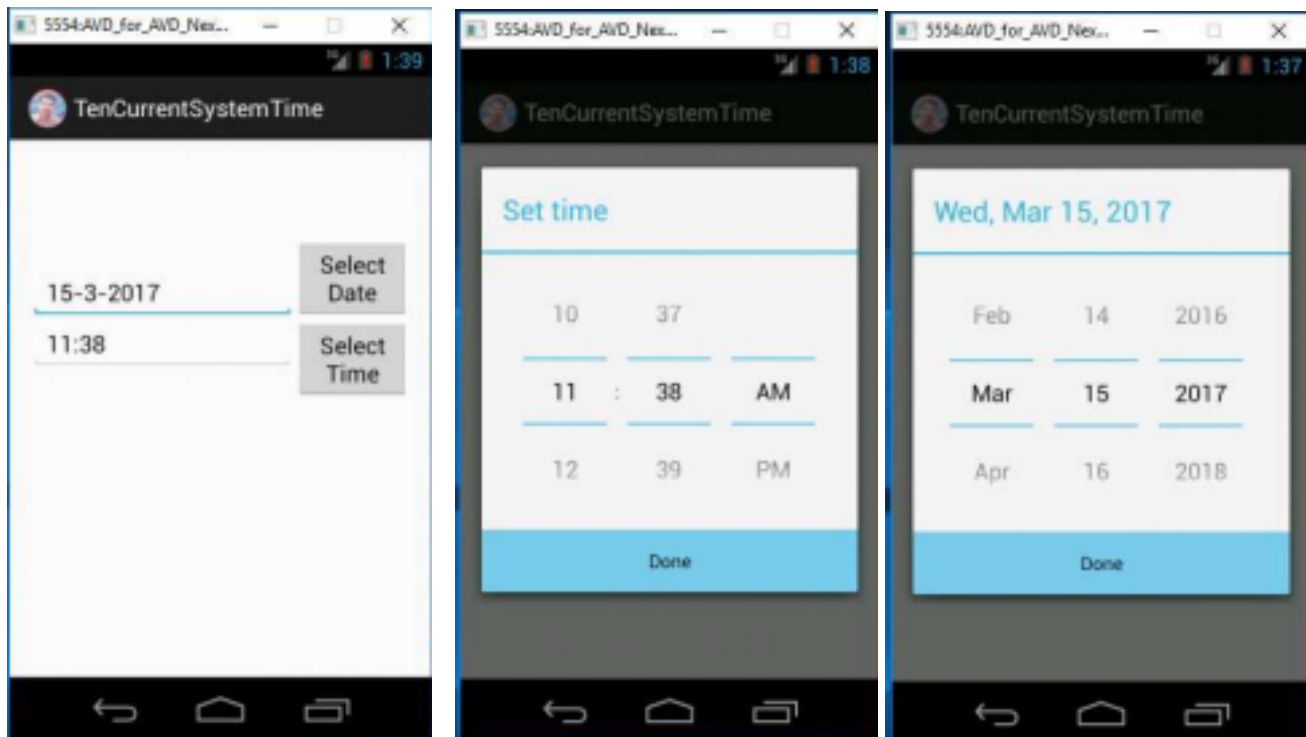
// Launch Time Picker Dialog
TimePickerDialog timePickerDialog = new TimePickerDialog(this, new
TimePickerDialog.OnTimeSetListener() {

@Override
public void onTimeSet(TimePicker view, int hourOfDay, int minute) {

txtTime.setText(hourOfDay + ":" + minute);    }
}, mHour, mMinute, false);
timePickerDialog.show();
}
}
}

```

## Output



## 11. Grid View (Write a Program to display contacts using Grid View Control)

### activity\_main.xml file

```
<?xml version="1.0" encoding="utf-8"?>
<GridView xmlns:android="http://schemas.android.com/apk/res/android"
    android:id="@+id/gridview"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent"
    android:columnWidth="90dp"
    android:numColumns="auto_fit"
    android:verticalSpacing="10dp"
    android:horizontalSpacing="10dp"
    android:stretchMode="columnWidth"
    android:gravity="center"
/>
```

### MainActivity.java file

```
package gems.andoubleos.hellogridview;

import android.os.Bundle;
import android.app.Activity;
import android.view.Menu;
import android.widget.GridView;

public class MainActivity extends Activity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        GridView gridview = (GridView) findViewById(R.id.gridview);
        gridview.setAdapter(new ImageAdapter(this));
    }
}
```

### ImageAdapter.java

```
package gems.andoubleos.hellogridview;

import android.content.Context;

import android.view.View;
import android.view.ViewGroup;

import android.widget.BaseAdapter;
import android.widget.GridView;
import android.widget.ImageView;

public class ImageAdapter extends BaseAdapter {
    private Context mContext;

    // Constructor
    public ImageAdapter(Context c) {
        mContext = c;
    }
}
```

```

public int getCount() {
    return mThumbIds.length;
}

public Object getItem(int position) {
    return null;
}

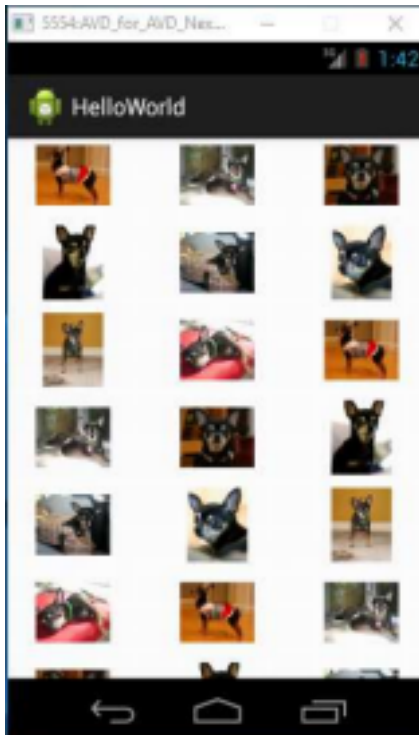
public long getItemId(int position) {
    return 0;
}

// create a new ImageView for each item referenced by the Adapter public
View getView(int position, View convertView, ViewGroup parent) {
    ImageView imageView;

    if (convertView == null) {
        imageView = new ImageView(mContext);
        imageView.setLayoutParams(new GridView.LayoutParams(85, 85));
        imageView.setScaleType(ImageView.ScaleType.CENTER_CROP);
        imageView.setPadding(8, 8, 8, 8);
    }
    else
    {
        imageView = (ImageView) convertView;
    }
    imageView.setImageResource(mThumbIds[position]);
    return imageView;
}

// Keep all Images in array
public Integer[] mThumbIds = {
    R.drawable.sample_2, R.drawable.sample_3,
    R.drawable.sample_4, R.drawable.sample_5,
    R.drawable.sample_6, R.drawable.sample_7,
    R.drawable.sample_0, R.drawable.sample_1,
    R.drawable.sample_2, R.drawable.sample_3,
    R.drawable.sample_4, R.drawable.sample_5,
    R.drawable.sample_6, R.drawable.sample_7,
    R.drawable.sample_0, R.drawable.sample_1,
    R.drawable.sample_2, R.drawable.sample_3,
    R.drawable.sample_4, R.drawable.sample_5,
    R.drawable.sample_6, R.drawable.sample_7
};
}

```



### 12. Image View (Write a Program to Display images from local drive of the computer)

#### activity\_main.xml file

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

    <ImageView
        android:id="@+id/imageView1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:src="@drawable/android" />

    <Button
        android:id="@+id/btnChangeImage"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Change Image" />

</LinearLayout>
```



## MainActivity.java file

```
package gems.anddoubleos.twelvedisplayimage;

import android.app.Activity;
import android.os.Bundle;
import android.widget.Button;
import android.widget.ImageView;
import android.view.View;
import android.view.View.OnClickListener;

public class MainActivity extends Activity {

    Button button;
    ImageView image;

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

        addListenerOnButton();
    }

    public void addListenerOnButton() {

        image = (ImageView) findViewById(R.id.imageView1);

        button = (Button) findViewById(R.id.btnChangeImage);
        button.setOnClickListener(new OnClickListener() {

            @Override
            public void onClick(View arg0) {
                image.setImageResource(R.drawable.android3d);
            }
        });
    }
}
```

## Output



### 13. List View(Write a Program to Display the items in a list)

#### MainActivity.java file

```
package gems.anddoubleos.thirteendisplayitemslist;

import android.app.ListActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.ArrayAdapter;
import android.widget.ListView;
import android.widget.TextView;
import android.widget.Toast;
import android.widget.AdapterView.OnItemClickListener;

public class MainActivity extends ListActivity {

    static final String[] FRUITS = new String[] { "Apple", "Avocado", "Banana",
"Blueberry", "Coconut", "Durian", "Guava", "Kiwifruit", "Jackfruit", "Mango",
"Olive", "Pear", "Sugar-apple" };

    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
```

```

setListAdapter(new ArrayAdapter<String>(this,
R.layout.activity_main, FRUITS));

ListView listView = getListView();
listView.setTextFilterEnabled(true);

listView.setOnItemClickListener(new OnItemClickListener() {    public void
onItemClick(AdapterView<?> parent, View view,    int position, long id) {

    Toast.makeText(getApplicationContext(),
    ((TextView) view).getText(), Toast.LENGTH_SHORT).show();    }
});
}
}

```

### activity\_main.xml file

```

<?xml version="1.0" encoding="utf-8"?>
<TextView xmlns:android="http://schemas.android.com/apk/res/android"
android:layout_width="fill_parent"
    android:layout_height="fill_parent"
    android:padding="10dp"
    android:textSize="20sp" >
</TextView>

```

### Output



## 14. Fetch data from an EditText and display it in a TextView

### activity\_main.xml file

```
<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" >

    <EditText
        android:id="@+id/editText1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignLeft="@+id/textView1"
        android:layout_alignParentTop="true"
        android:layout_marginTop="48dp"
        android:ems="10"
        android:inputType="textPersonName" >

        <requestFocus />
    </EditText>

    <EditText
        android:id="@+id/editText2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignLeft="@+id/editText1"
        android:layout_below="@+id/editText1"
        android:layout_marginTop="28dp"
        android:ems="10"
        android:inputType="textPersonName" />

    <Button
        android:id="@+id/button1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignLeft="@+id/editText2"
        android:layout_below="@+id/editText2"
        android:layout_marginTop="50dp"
        android:text="Button" />

    <TextView
        android:id="@+id/textView1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentRight="true"
        android:layout_below="@+id/button1"
        android:layout_marginRight="184dp"
        android:layout_marginTop="136dp"
        android:text="Display Here"
        android:textAppearance="?android:attr/textAppearanceLarge" />
```

```
</RelativeLayout>
```

## MainActivity.java file

```
package com.andoubleos.editanddisplay;

import android.os.Bundle;
import android.app.Activity;
import android.text.method.ScrollingMovementMethod;
import android.view.Menu;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;

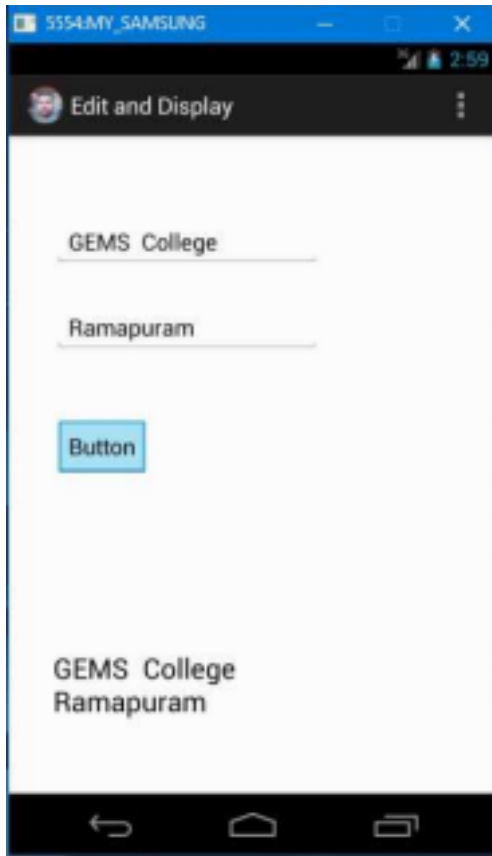
public class MainActivity extends Activity {

    Button btnn;
    EditText text1;
    EditText text2;
    TextView txtview;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        btnn = (Button) findViewById(R.id.button1);
        txtview = (TextView) findViewById(R.id.textView1);
        txtview.setMovementMethod(new ScrollingMovementMethod());
        btnn.setOnClickListener(new View.OnClickListener() {

            @Override
            public void onClick(View arg0) {
                // TODO Auto-generated method stub
                text1 = (EditText) findViewById(R.id.editText1);
                text2 = (EditText) findViewById(R.id.editText2);
                txtview.setText(text1.getText().toString()+"\n"+text2.getText().toString());
            }
        });
    }
}
```

## Output



### 15. Write a program to display multiplication table of a given number

#### activity\_main.xml file

```
<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" >

    <Button
        android:id="@+id/button1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignBottom="@+id/editText1"
        android:layout_alignParentRight="true"
        android:layout_marginRight="78dp"
        android:text="Button" />

    <TextView
        android:id="@+id/textView1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
```

```

android:layout_alignLeft="@+id/editText1"
android:layout_alignParentBottom="true"
android:layout_below="@+id/editText1"
android:layout_marginTop="41dp"
android:text=" "
android:textAppearance="?android:attr/textAppearanceLarge" />

<EditText
android:id="@+id/editText1"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignParentLeft="true"
android:layout_alignParentTop="true"
android:layout_marginLeft="57dp"
android:ems="10" />

</RelativeLayout>

```

## MainActivity.java file

```

package com.andoubleos.multiple;

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

public class MainActivity extends Activity {

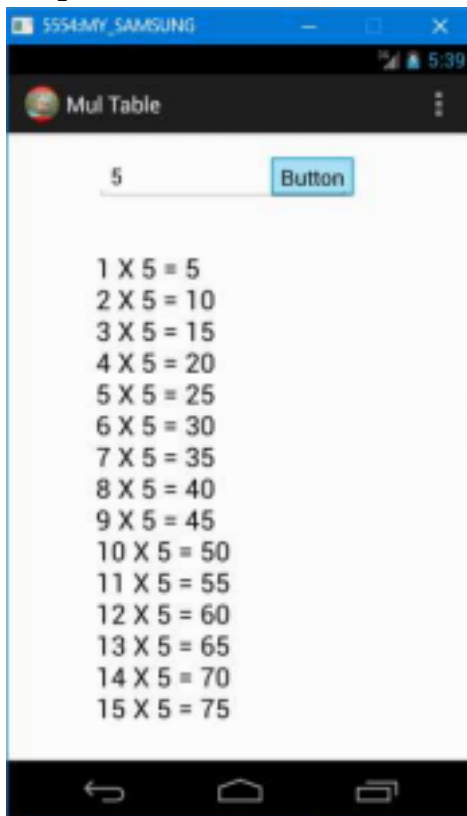
    EditText editText;
    Button button;
    TextView result;
    int ans=0;

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

        editText=(EditText) findViewById(R.id.editText1);
        button=(Button) findViewById(R.id.button1);
        result=(TextView) findViewById(R.id.textView1);
        button.setOnClickListener(new OnClickListener() {
            @Override
            public void onClick(View arg0) {
                // TODO Auto-generated method stub
                StringBuffer buffer = new
StringBuffer();
                String fs=editText.getText().toString();
                int n
= Integer.parseInt(fs);
                for (int i = 1; i <= 15; i++) {
                    ans = (i * n);
                    buffer.append(i + " X " + n + " = " + ans + "\n");
                }
                result.setText(buffer);
            }
        });
    }
}

```

## Output



## 16. Write a program to Get IP Address of the device

### activity\_main.xml file

```
<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:id="@+id/textView1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentBottom="true"
        android:layout_alignParentLeft="true"
        android:layout_marginBottom="143dp"
        android:layout_marginLeft="174dp"
        android:text="Large Text"
        android:textAppearance="?android:attr/textAppearanceLarge" />

    <Button
        android:id="@+id/button1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignLeft="@+id/textView1"
        android:layout_alignParentTop="true"
        android:layout_marginTop="124dp"
        android:text="Get IP Address" />
```



</RelativeLayout>

## MainActivity.java file

```
package com.andoubleos.getip;
import android.net.wifi.WifiManager;
import android.os.Bundle;
import android.app.Activity;
import android.text.format.Formatter;
import android.view.Menu;
import android.view.View;
import android.view.View.OnClickListener;
import android.widget.Button;
import android.widget.TextView;

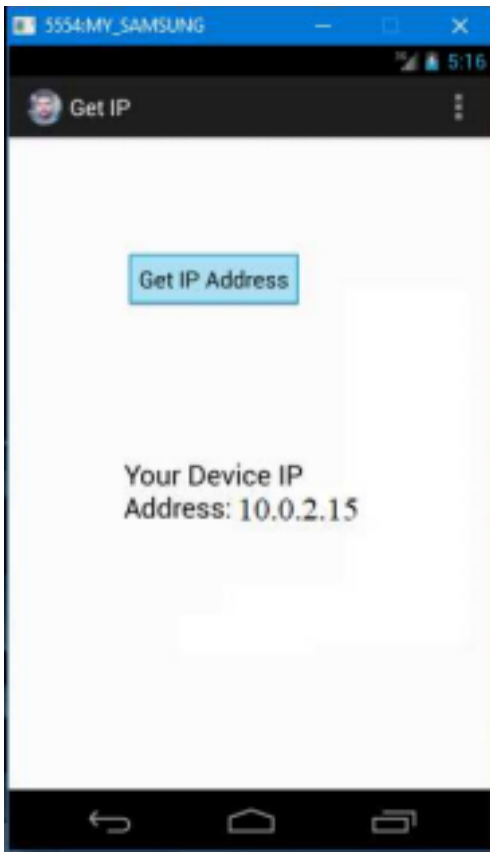
public class MainActivity extends Activity {

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

        btnn=(Button) findViewById(R.id.button1);
        btnn.setOnClickListener(new OnClickListener() {

            @Override
            public void onClick(View arg0) {
                // TODO Auto-generated method stub
                txtview = (TextView) findViewById(R.id.textView1);    WifiManager
                wifiManager =
                (WifiManager) getSystemService(WIFI_SERVICE);
                String ipAddress=
                Formatter.formatIpAddress(wifiManager.getConnectionInfo().getIpAddress());
                txtview.setText("Your Device IP Address: " + ipAddress);    }
            });
        }
    }
}
```

## Output



## 17. Write a program to Change the Background colour of the Activity

### activity\_main.xml file

```
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/rl"
    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" >

    <Button
        android:id="@+id/button1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentLeft="true"
        android:layout_alignParentTop="true"
        android:layout_marginLeft="88dp"
        android:layout_marginTop="242dp"
        android:text="Apply Background Colour" />

</RelativeLayout>
```

## MainActivity.java file

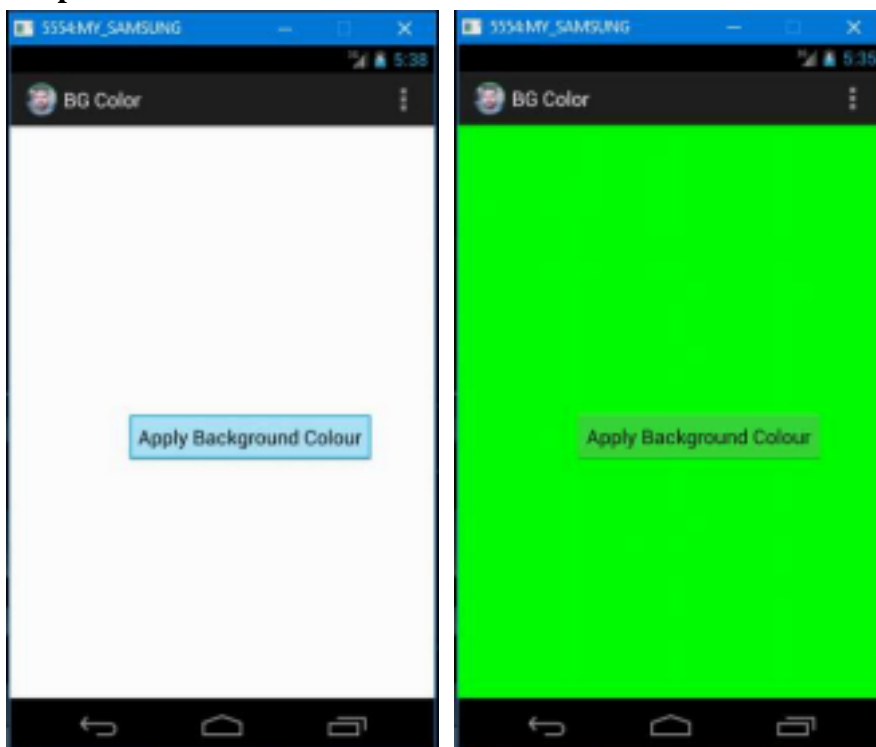
```
package com.andoubleos.bgcolor;
import android.os.Bundle;
import android.app.Activity;
import android.graphics.Color;
import android.view.Menu;
import android.view.View;
import android.view.View.OnClickListener;
import android.widget.Button;
import android.widget.RelativeLayout;

public class MainActivity extends Activity {
    Button btnn;

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

        final RelativeLayout rl = (RelativeLayout)findViewById(R.id.rl);    btnn=
        (Button)findViewById(R.id.button1);
        btnn.setOnClickListener(new OnClickListener() {
            @Override
            public void onClick(View arg0) {
                rl.setBackgroundColor(Color.YELLOW);    }
            });
    }
}
```

## Output



## 18. Write a program to Change the Background image

### activity\_main.xml file

```
<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=".ToastMainActivity" >

    <Button
        android:id="@+id/button1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentBottom="true"
        android:layout_alignParentLeft="true"
        android:layout_marginBottom="100dp"
        android:layout_marginLeft="58dp"
        android:text="Image 1" />

    <Button
        android:id="@+id/button2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignBottom="@+id/button1"
        android:layout_centerHorizontal="true"
        android:text="Image 2" />

    <ImageView
        android:id="@+id/imageView1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_above="@+id/button2"
        android:layout_alignRight="@+id/button2"
        android:minHeight="300dp"
        android:minWidth="300dp"
        android:src="@drawable/bg3" />

</RelativeLayout>
```

### MainActivity.java file

```
package com.andoubleos.bgimage;

import android.os.Bundle;
import android.app.Activity;
import android.view.Menu;
import android.view.View;
import android.widget.Button;
import android.widget.ImageView;

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

```

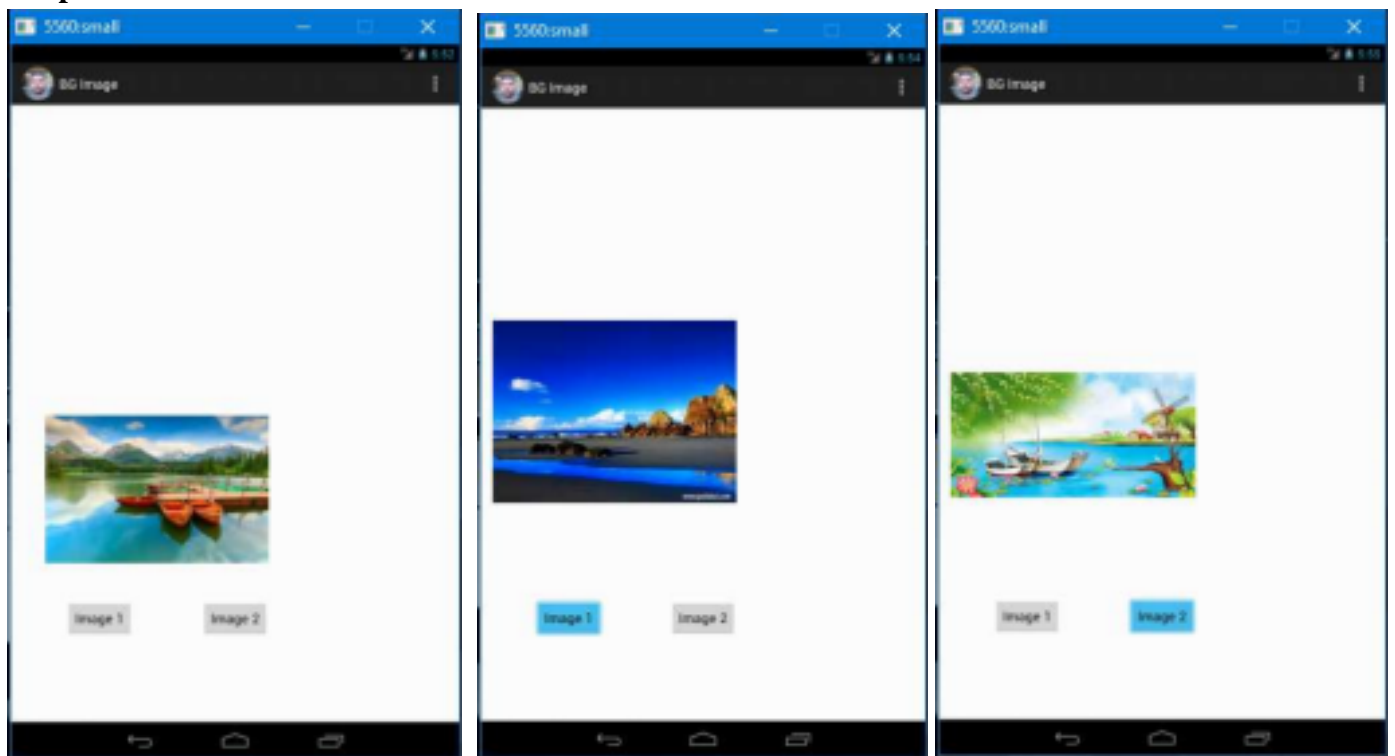
ImageView v1;
Button btn1;
Button btn2;

@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    btn1=(Button)findViewById(R.id.button1);
    btn2=(Button)findViewById(R.id.button2);
    v1=(ImageView)findViewById(R.id.imageView1);
    btn1.setOnClickListener(this);
    btn2.setOnClickListener(this);
}

@Override
    public void onClick(View v) {
        // TODO Auto-generated method stub
        switch(v.getId()){
            case R.id.button1:
                v1.setImageResource(R.drawable.bg1);    break;
            case R.id.button2:
                v1.setImageResource(R.drawable.bg2);    break;
        }
    }
}

```

## Output



## 19. Program using array adapter

### activity\_main.xml file

```
<LinearLayout 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" >

    <ListView
        android:id="@+id/listView1"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_weight="1" >
    </ListView>

</LinearLayout>
```

### MainActivity.java file

```
package com.andoubleos.arrayadapter;

import android.os.Bundle;
import android.app.Activity;
import android.view.Menu;
import android.view.View;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.ArrayAdapter;
import android.widget.TextView;
import android.widget.Toast;

public class MainActivity extends Activity {

    ListView lst;
    String[] months =
    {"Janaury", "Feb", "March", "April", "May", "June", "July", "August", "September", "October", "November", "December"};

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

        lst= (ListView) findViewById(R.id.listView1);
        ArrayAdapter<String> arrayadapter=new
        ArrayAdapter<String>(this, android.R.layout.simple_list_item_1, months);
        lst.setAdapter(arrayadapter);
        lst.setOnItemClickListener(new AdapterView.OnItemClickListener() {
            @Override

            public void onItemClick(AdapterView<?> parent, View view, int position,
            long id) {
                TextView tv= (TextView) view;
                Toast.makeText(MainActivity.this, tv.getText()+"
                "+position, Toast.LENGTH_LONG).show();
            }
        });
    }
}
```

## Output



## 20. Program to start another activity from your own activity using intent

### activity\_main.xml file

```
<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" >
```

```
<Button
    android:id="@+id/button1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentBottom="true"
    android:layout_centerHorizontal="true"
    android:layout_marginBottom="236dp"
    android:text="Button" />
```

```
<TextView
    android:id="@+id/textView1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentLeft="true"
    android:layout_alignParentTop="true"
    android:text="You are in First Activity"
    android:textAppearance="?android:attr/textAppearanceLarge" />
```

```
</RelativeLayout>
```

## Nextactivitylayout.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" >

    <TextView
        android:id="@+id/textView1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="You are in Second Activity"
        android:textAppearance="?android:attr/textAppearanceLarge" />

</LinearLayout>
```

## MainActivity.java file

```
package com.example.activityintent;

import android.os.Bundle;
import android.app.Activity;
import android.content.Intent;
import android.view.Menu;
import android.view.View;
import android.widget.Button;

public class MainActivity extends Activity {

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

        jumpbtn = (Button)findViewById(R.id.button1);
        jumpbtn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                // TODO Auto-generated method stub
                Intent i = new Intent(MainActivity.this,nextactivity.class);    startActivity(i);
            }
        });
    }
}
```

## Nextactivity.java

```
package com.example.activityintent;

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

public class nextactivity extends Activity{
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        // TODO Auto-generated method stub

        setContentView(R.layout.nextactivitylayout);

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



## AndroidManifest.xml

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
package="com.example.activityintent"
    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.activityintent.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.activityintent.nextactivity"
            android:label="@string/app_name" >
        </activity>
    </application>

</manifest>
```

## Output

