



# Android Class

**#Android Notes**

# Examples Of Sum Of Two Numbers



# Screenshot activity\_main.xml

The image shows the Android Studio IDE with the `activity_main.xml` file open. The XML code defines a vertical `LinearLayout` containing two `EditText` fields and an `ADD` button.

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

    <EditText
        android:id="@+id/etNum1"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Enter Number 1" />

    <EditText
        android:id="@+id/etNum2"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Enter Number 2" />

    <Button
```

The preview window on the right shows the visual representation of the XML code. It displays a mobile app interface with a blue header labeled "MyDemo", two text input fields labeled "Enter Number 1" and "Enter Number 2", and a grey button labeled "ADD". The status bar at the top of the preview shows the time as 8:00. The bottom of the preview shows the standard Android navigation bar.

# Cont...

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

MyDemo app src main res layout activity\_main.xml

MainActivity.java activity\_main.xml

```
12 android:layout_width="match_parent"
13 android:layout_height="wrap_content"
14 android:hint="Enter Number 1" />
15
16 <EditText
17     android:id="@+id/etNum2"
18     android:layout_width="match_parent"
19     android:layout_height="wrap_content"
20     android:hint="Enter Number 2" />
21
22 <Button
23     android:id="@+id/btnSum"
24     android:layout_width="wrap_content"
25     android:layout_height="wrap_content"
26     android:layout_gravity="center"
27     android:layout_marginTop="30dp"
28     android:text="Add" />
29
30 </LinearLayout>
```

Preview

Palette

Nexus 4 27 31%

MyDemo

Enter Number 1

Enter Number 2

ADD

LinearLayout > EditText

Design Text

Run TODO Logcat Android Profiler Terminal Build

Event Log

# Screenshot MainActivity.java

The screenshot displays the Android Studio IDE with the `MainActivity.java` file open. The code is as follows:

```
1 package com.example.devanshi.mydemo;
2
3 import ...
4
5
6
7
8
9
10 public class MainActivity extends AppCompatActivity {
11     EditText etNum1, etNum2;
12     Button btnSum;
13     @Override
14     protected void onCreate(Bundle savedInstanceState) {
15         super.onCreate(savedInstanceState);
16         setContentView(R.layout.activity_main);
17         etNum1 = (EditText) findViewById(R.id.etNum1);
18         etNum2 = (EditText) findViewById(R.id.etNum2);
19         btnSum = (Button) findViewById(R.id.btnSum);
20         btnSum.setOnClickListener(new View.OnClickListener() {
21             @Override
22             public void onClick(View v) {
23                 // convert both editText into String
24                 String num1, num2;
25                 num1 = etNum1.getText().toString();
26                 num2 = etNum2.getText().toString();
27                 // Convert both editText into Integer
```

The IDE interface includes a top menu bar (File, Edit, View, Navigate, Code, Analyze, Refactor, Build, Run, Tools, VCS, Window, Help), a toolbar with icons for navigation and execution, and a bottom status bar with tabs for Run, TODO, Logcat, Android Profiler, Terminal, and Build. The right sidebar shows the Gradle and Device File Explorer panels.

# Cont...

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

MyDemo > app > src > main > java > com > example > devanshi > mydemo > MainActivity

app

MainActivity.java x

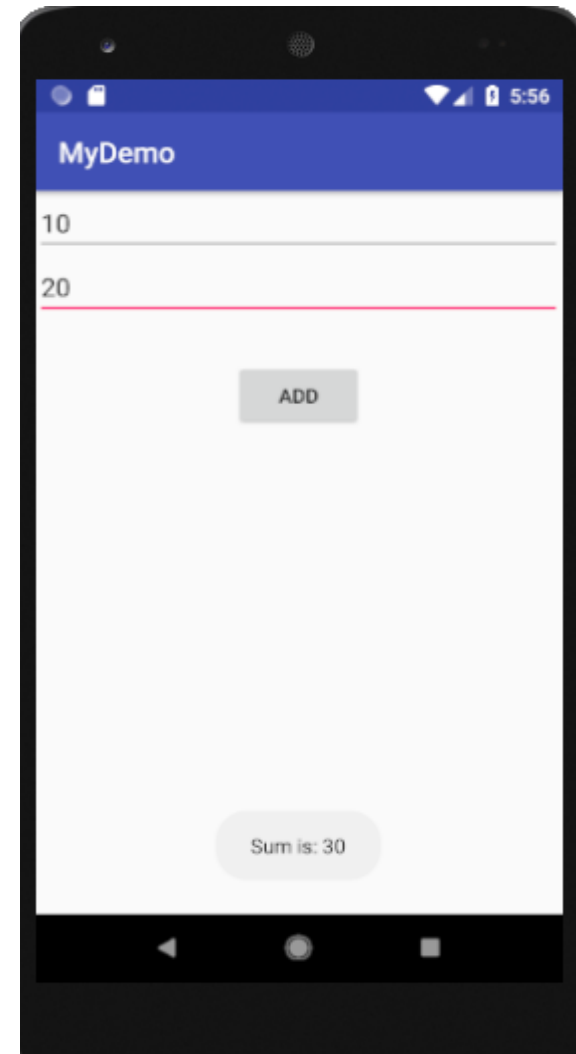
activity\_main.xml x

```
18 etNum2=(EditText)findViewById(R.id.etNum2);
19 btnSum=(Button)findViewById(R.id.btnSum);
20 btnSum.setOnClickListener(new View.OnClickListener() {
21     @Override
22     public void onClick(View v) {
23         // convert both editText into String
24         String num1,num2;
25         num1=etNum1.getText().toString();
26         num2=etNum2.getText().toString();
27         // Convert both editText into Integer
28         int a = Integer.parseInt(num1);
29         int b = Integer.parseInt(num2);
30         int sum = a + b;
31         Toast.makeText(context: MainActivity.this, text: "Sum is: "+sum, Toast.LENGTH_SHORT).show();
32         //Toast.makeText(getApplicationContext(), Integer.toString(sum), Toast.LENGTH_SHORT).show();
33     }
34 }
35 });
36 }
37 }
38 }
```

4: Run TODO 6: Logcat Android Profiler Terminal Build

Event Log

# Output



# Display EditText Content in TextView





# Screenshot activity\_textview.xml

The screenshot displays the Android Studio IDE interface. The main editor shows the XML layout file `activity_textview.xml` with the following content:

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

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="horizontal">

        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Enter Your Name"
            android:textColor="@android:color/black"
            android:textSize="20dp" />

    </LinearLayout>

</LinearLayout>
```

The `android:orientation="vertical"` attribute on line 7 and the `android:text="Enter Your Name"` attribute on line 18 are highlighted in yellow. A lightbulb icon is visible next to line 7, indicating a suggestion or warning.

The right-hand side of the IDE shows the **Preview** window, which displays a visual representation of the layout on a Nexus 4 device. The preview shows a blue header bar with the text "MyDemo". Below the header, there is a text input field with the placeholder text "Enter Your Name". Below the input field, there is a button labeled "CLICK ME!". Below the button, there is a label "Name". The device status bar at the top right shows the time as 8:00. The bottom of the preview shows the Android navigation bar.

The bottom of the IDE shows the **Design** and **Text** tabs, with the **Design** tab currently selected. The bottom status bar shows the **Run** button, **TODO**, **Logcat**, **Android Profiler**, **Terminal**, and **Build** options.

# Cont...

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

MyDemo > app > src > main > res > layout > activity\_textview.xml

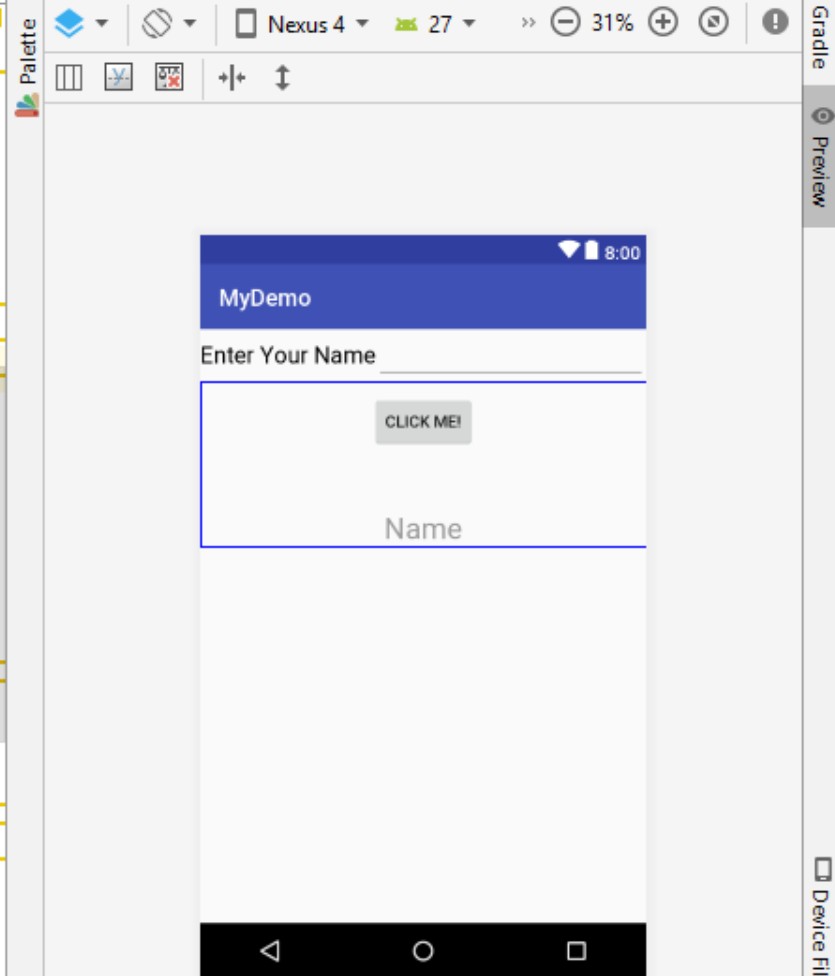
```
20 <EditText
21     android:id="@+id/etName"
22     android:layout_width="match_parent"
23     android:layout_height="wrap_content" />
24 </LinearLayout>
25
26 <LinearLayout
27     android:layout_width="match_parent"
28     android:layout_height="wrap_content"
29     android:orientation="vertical">
30
31     <Button
32         android:id="@+id/btnClick"
33         android:layout_width="wrap_content"
34         android:layout_height="wrap_content"
35         android:layout_gravity="center"
36         android:layout_marginTop="20px"
37         android:text="Click Me!" />
38
39     <TextView
40         android:id="@+id/tvName"
```

LinearLayout > LinearLayout

Design

Text

Preview



Event Log

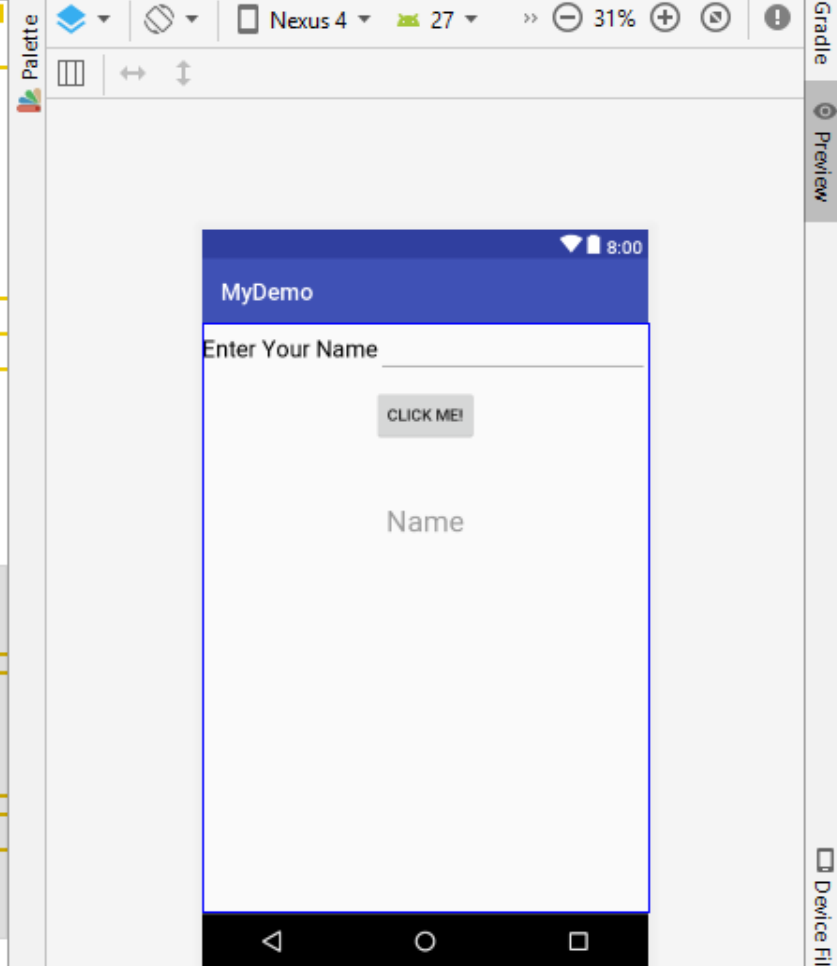
# Cont...

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

MyDemo > app > src > main > res > layout > activity\_textview.xml

```
TextviewActivity.java x activity_textview.xml x
31 <Button
32     android:id="@+id/btnClick"
33     android:layout_width="wrap_content"
34     android:layout_height="wrap_content"
35     android:layout_gravity="center"
36     android:layout_marginTop="20px"
37     android:text="Click Me!" />
38
39 <TextView
40     android:id="@+id/tvName"
41     android:layout_width="wrap_content"
42     android:layout_height="wrap_content"
43     android:layout_gravity="center"
44     android:layout_marginTop="100px"
45     android:hint="Name"
46     android:textColor="@android:color/black"
47     android:textSize="25dp" />
48 </LinearLayout>
49 </LinearLayout>
```

Preview



LinearLayout

Design Text

Run TODO Logcat Android Profiler Terminal Build

Event Log

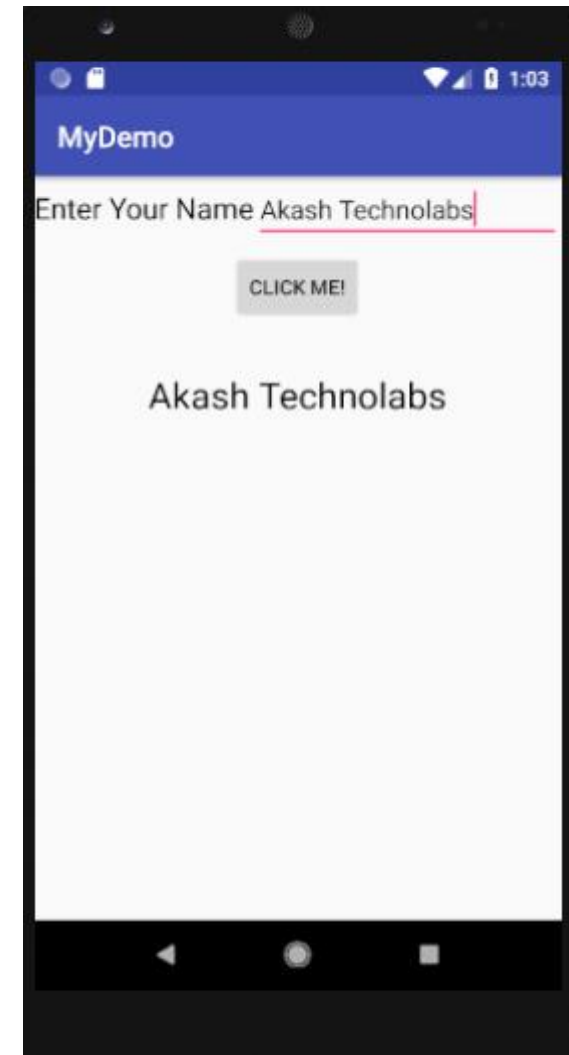
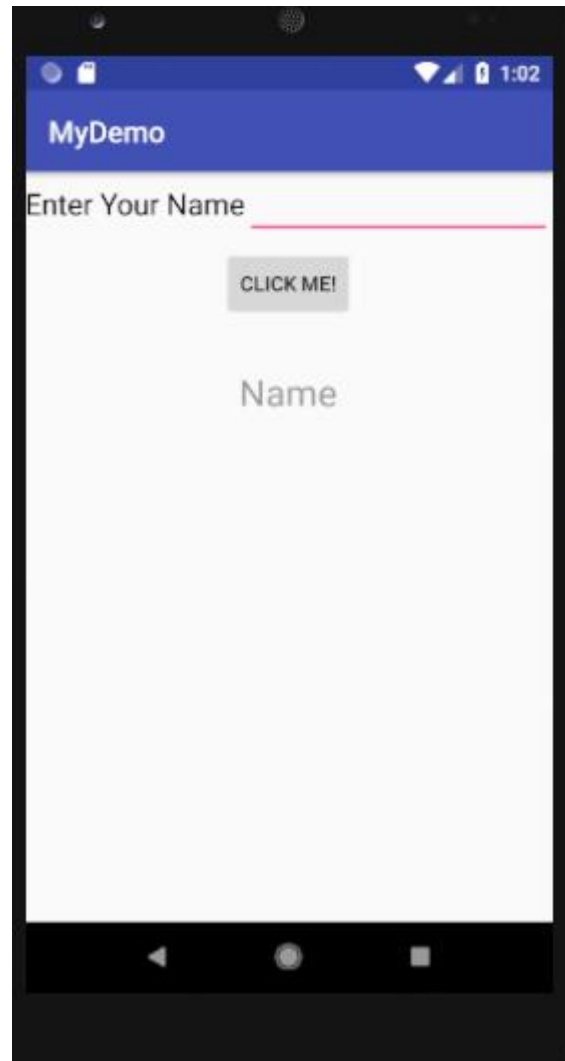
# Screenshot TextviewActivity.java

The screenshot displays the Android Studio IDE with the following components:

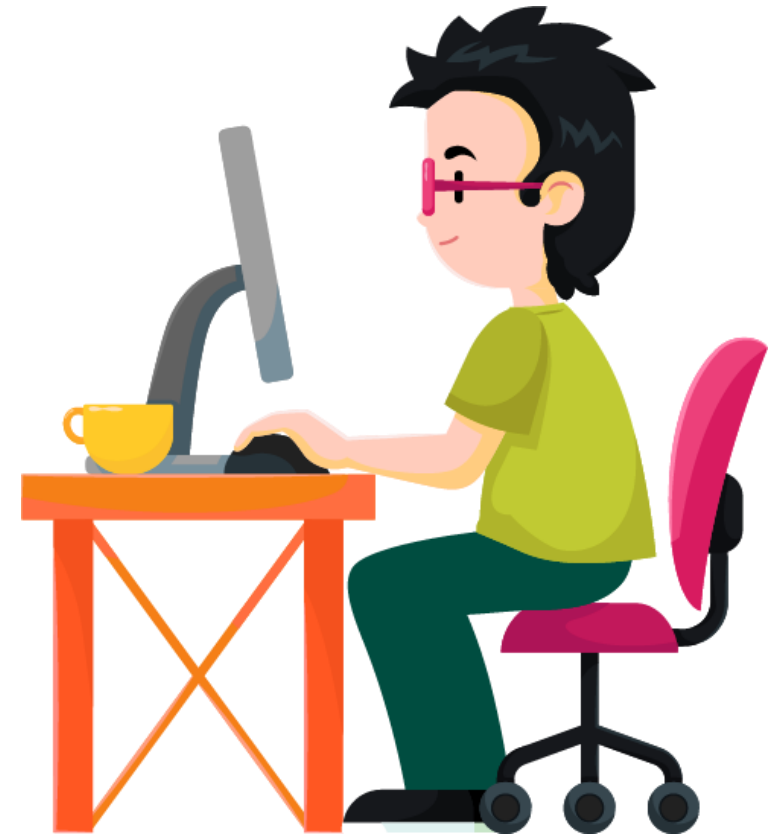
- Top Menu Bar:** File, Edit, View, Navigate, Code, Analyze, Refactor, Build, Run, Tools, VCS, Window, Help.
- Top Toolbar:** Navigation icons for back, forward, search, and other development tools.
- Breadcrumbs:** MyDemo > app > src > main > java > com > example > devanshi > mydemo > TextviewActivity.
- Editor Tabs:** TextviewActivity.java (active), activity\_textview.xml.
- Left Sidebar:** Project Explorer (1: Project), Structure (2: Structure), Captures, Build Variants, Favorites (2: Favorites).
- Right Sidebar:** Gradle, Device File Explorer.
- Main Editor:** Java code for TextviewActivity.java.

```
1 package com.example.devanshi.mydemo;
2 import ...
8 public class TextviewActivity extends AppCompatActivity {
9     EditText etName;
10    TextView tvName;
11    Button btnClick;
12    @Override
13    protected void onCreate(Bundle savedInstanceState) {
14        super.onCreate(savedInstanceState);
15        setContentView(R.layout.activity_textview);
16        etName=(EditText) findViewById(R.id.etName);
17        tvName=(TextView) findViewById(R.id.tvName);
18        btnClick=(Button) findViewById(R.id.btnClick);
19        btnClick.setOnClickListener(new View.OnClickListener() {
20            @Override
21            public void onClick(View v) {
22                String name=etName.getText().toString();
23                tvName.setText(name);
24            }
25        });
26    }
27 }
```
- Bottom Bar:** Run, TODO, Logcat, Android Profiler, Terminal, Build, Event Log.

# Output



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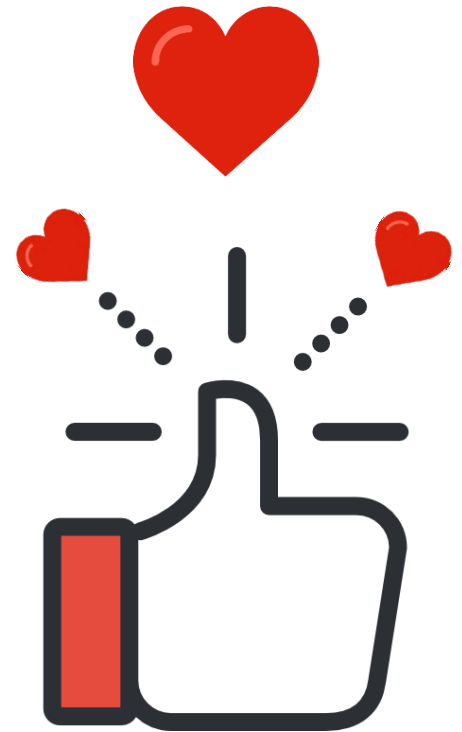
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