Android Introduction

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Android introduction

today:

- 1. example project
- 2. mainactivity
- 3. xml
- 4. manifast xml

example project

xml

LinearLayout is a view group (a subclass of ViewGroup) that lays out child views in either a vertical or horizontal orientation, as specified by the Android orientation attribute. Each child of a LinearLayout appears on the screen in the order in which it appears in the XML.

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.</p>
com/apk/res/android"
  android:layout width="fill parent"
  android:layout height="fill parent"
  android:orientation="vertical"
  android:background="@drawable/c"
   >
  <TextView
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text="you have 0 points"
    android:textSize="30dp"
    android:layout gravity="center"
    android:gravity="center"
    android:id="@+id/txtdisplay"
               />
```

```
<Button
     android:layout width="250dp"
    android:layout height="wrap content"
    android:text="add one point"
    android:textSize="15dp"
    android:layout gravity="center"
    android:id="@+id/btnplus"
     />
    <Button
     android:layout width="250dp"
    android:layout height="wrap content"
    android:text="minus one point"
    android:textSize="15dp"
    android:layout gravity="center"
    android:id="@+id/btnminus"
         />
</LinearLayout>
```

LinearLayout

- Linear layout- vertical or horizontal
- match_parent = fill out to the size of the parent
- match_parent = just big enough to hold our own contents
- @string/hello_world = refer to data centralized in res/values/strings.xml.

Activity class

```
public class Androidlesson3Activity extends Activity {
  /** Called when the activity is first created. */
      int point;
      Button add;
      Button minus;
      TextView display;
  @Override
  public void onCreate(Bundle savedInstanceState) {
     super.onCreate(savedInstanceState);
     setContentView(R.layout.main);
    point=0;
     add=(Button)findViewById(R.id.btnplus);
     minus=(Button)findViewById(R.id.btnminus);
     display=(TextView)findViewById(R.id.txtdisplay);
```

```
add.setOnClickListener(this);
minus.setOnClickListener(this);
 @Override
 public void onClick(View v) {
        // TODO Auto-generated method stub
        if(v.getId()==R.id.btnplus)
        point++;
        else if( v.getId()==R.id.btnminus)
               point--;
        display.setText("your totol point is " + point);
```

Activity class

```
public class Androidlesson3Activity extends Activity {
  /** Called when the activity is first created. */
      int point;
      Button add;
      Button minus;
      TextView display;
  @Override
  public void onCreate(Bundle savedInstanceState) {
     super.onCreate(savedInstanceState);
     setContentView(R.layout.main);
    point=0;
     add=(Button)findViewById(R.id.btnplus);
     minus=(Button)findViewById(R.id.btnminus);
     display=(TextView)findViewById(R.id.txtdisplay);
```

```
add.setOnClickListener(new View.OnClickListener() {
       @Override
      public void onClick(View v) {
      // TODO Auto-generated method stub
      point++;
      display.setText("your totol point is " + point);
             });
     minus.setOnClickListener(new View.OnClickListener()
{
    @Override
   public void onClick(View v) {
      // TODO Auto-generated method stub
      point--;
      display.setText("your totol point is " + point);
});
```

android manifast file

```
<manifest xmlns:android="http://schemas.android.</pre>
com/apk/res/android"
  package="com.example.lessona_an2 example2"
  android:versionCode="1"
  android:versionName="1.0" >
  <uses-sdk
     android:minSdkVersion="8"
     android:targetSdkVersion="15" />
  <application
     android:icon="@drawable/ic launcher"
     android:label="@string/app name"
     android:theme="@style/AppTheme" >
     <activity
       android:name=".MainActivity"
       android:label="@string/title_activity_main" >
       <intent-filter>
          <action android:name="android.intent.action.MAIN" />
          <category android:name="android.intent.category.</pre>
LAUNCHER" />
       </intent-filter>
     </activity>
  </application>
</manifest>
```

- 1. "@string/app_name" : name of the application.
- 2.The Activity "android:name :class name that implements the activity.
- 3. The "." means that the class in the the current package
- 4. The launcher provides the appicon to launch this activity first.

example 1



Example 2

xml

LinearLayout is a view group (a subclass of ViewGroup) that lays out child views in either a vertical or horizontal orientation, as specified by the Android orientation attribute. Each child of a LinearLayout appears on the screen in the order in which it appears in the XML.

```
<LinearLayout xmlns:android="http://schemas.android.</p>
com/apk/res/android"
  xmlns:tools="http://schemas.android.com/tools"
  android:layout width="match parent"
  android:layout height="match parent" >
 <EditText
    android:id="@+id/editText1"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:layout marginTop="14dp"
  </EditText>
 <Button
    android:id="@+id/button1"
    android:layout width="wrap content"
    android:layout height="wrap_content"
    android:layout alignParentLeft="true"
    android:text="Button" />
```

```
<TextView
    android:id="@+id/textView1"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:layout alignParentLeft="true"
    android:layout below="@+id/button1"
    android:layout marginTop="54dp"
    android:text="TextView" />
</LinearLayout>
```

Activity class

example code

public class MainActivity extends Activity { Button btn; TextView tv: EditText et: @Override public void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity main); et=(EditText) findViewById(R.id.editText1); btn=(Button) findViewById(R.id.button1); tv=(TextView) findViewById(R.id.textView1); btn.setOnClickListener(new View.OnClickListener() { @Override public void onClick(View v) { // TODO Auto-generated method stub String info=et.getText().toString(); tv.setText(info): **}** });

same example code

```
public class MainActivity extends Activity {
  Button btn:
  TextView tv;
   EditText et;
@Override
 public void onCreate(Bundle savedInstanceState) {
     super.onCreate(savedInstanceState);
     setContentView(R.layout.activity main);
     et=(EditText) findViewById(R.id.editText1);
    btn=(Button) findViewById(R.id.button1);
    tv=(TextView) findViewById(R.id.textView1);
    btn.setOnClickListener(this);
@Override
            public void onClick(View v) {
             // TODO Auto-generated method stub
             String info=et.getText().toString();
             tv.setText(info);
```

דוגמא נוספת

MainActivity				
asaf				
Button				
asaf				
ŋ	. @	ABC 2	DEF 3	DEL
0	GHI 4	JKL 5	MNO 6	0
記号	PQRS 7	TUV 8	WXYZ 9	
文字 あA1	A⇔a	- 0	, .	安定

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Home Work

- 1. כתב אפליקציה שמציגה 2 תיבות text ו-textמתחתיהם.לאחר שהמשתמש יזין את text שמו ואת שם משפחתו לתיבות ה-text אזי שם ושם משפחתו יופיע על תיבת ה-text מתחת לכפתורים.
- 2. כתב אפליקציה שמכילה שני תיבות text ו-text בינהם שכתוב עליו הסימן + ו-submit נוסף להצגת התוצאה.וכפתור submit. המשתמש יקיש שני מספרים וילחץ על cextview ותופיע תוצאת המחשבון.
 - 23. צור מסך המכיל על כפתורים את המספרים 1,2,3,4,5,6,7,8,9,0 ואת הפעולות כפל, חיבור,חיסור וחילוק והסימן שווה.המשתמש יקיש על מספר,פעולה ועוד מספר ולאחר מיכן על תוצאת שווה ויוצג לו תוצאת הפעולה על המספרים.
 - 4. הוסף לתרגילים 2,1 ו-background 3 לבחירתך.

יום ללא תכנות הוא יום מבוזבז!