#3 EVENT HANDLER

Event Registration From Layout

1. Create new project Learning Event Handler with main activity MainActivity.java and layout file activity_main.xml

```
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    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">
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Tombol 1"
            android:id="@+id/buttonl"
            android:layout_alignParentTop="true"
            android:layout_centerHorizontal="true"
            android:onClick="pencet"/>
</RelativeLayout>
```

2. Create button and register that button to call "pencet" method at activity_main.xml

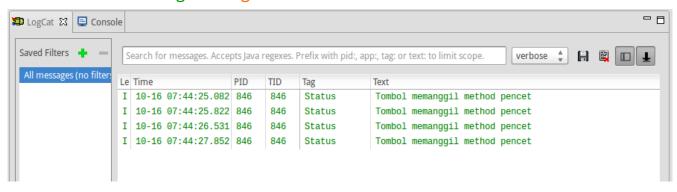


3. Create method "pencet" at MainActivity.java

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

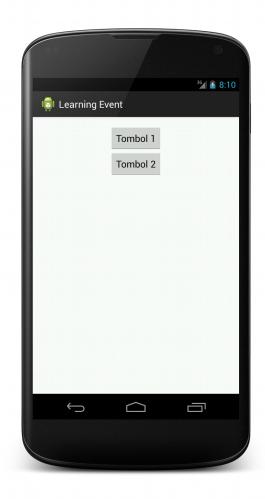
    /**
    * pencet method, call from layout
    */
    public void pencet(View v) {
        //show message on logcat
        Log.i("Status", "Tombol memanggil method pencet");
}
```

4. Run and see messages at logcat window



5. Modify activity_main.xml to add another button with same handler

```
<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">
             android:layout_width="wrap_content"
            android:layout_height="wrap_content"
android:text="Tombol 1"
android:id="@+id/button1"
             android:layout_alignParentTop="true"
             android:layout centerHorizontal="true"
             android:onClick="pencet"/>
    <Button
             android:layout_width="wrap_content"
             android:layout_height="wrap_content"
            android:text="Tombol 2"
             android:id="@+id/button2"
             android:onClick="pencet"
android:layout_below="@+id/buttonl"
             android:layout alignLeft="@+id/buttonl"/>
```



6. Modify "pencet" method to display button text that call method

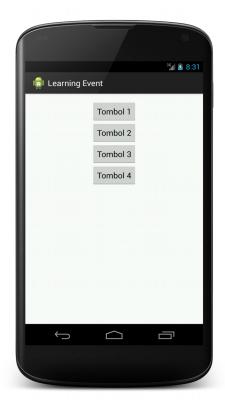
```
/**
  * pencet method, call from layout
  */
public void pencet(View v){
    //cast v to Button and get its label
    String label = ((Button)v).getText().toString();
    //show message on logcat
    Log.i("Status", label+" memanggil method pencet");
}
```

7. Run and see messages at logcat window

```
I/Status: Tombol 2 memanggil method pencet
I/Status: Tombol 2 memanggil method pencet
I/Status: Tombol 2 memanggil method pencet
I/Status: Tombol 1 memanggil method pencet
I/Status: Tombol 1 memanggil method pencet
I/Status: Tombol 2 memanggil method pencet
I/Status: Tombol 2 memanggil method pencet
I/Status: Tombol 2 memanggil method pencet
I/Status: Tombol 1 memanggil method pencet
```

Event Registration With Anonymous Inner Class

1. Modify activity_main.xml to add two more button, but don't register onclick handler



2. Create event handler "tekan" with anonymous inner class at MainActivity.java inside onCreate() method, and register button3 & button4 to call "tekan" handler

- 3. Run and see messages at logcat window
- 4. Modify "tekan" handler to show which button that call it. (do it your self, it's just like "pencet" method)
- 5. Run and see messages at logcat window



Activity Class Implement Listener Interface

1. Modify activity_main.xml to add two more button.



2. Modify MainActivity to implement listener interface.

public class MainActivity extends Activity implements View.OnClickListener{

3. Override unimplement method (onClick() method)

```
@Override
public void onClick(View view) {
    //show message on logcat
    Log.i("Status","Menggunakan activity class");
}
```

4. Register button5 & button6 listener to use onClick() handler inside onCreate() method.

```
//Register tombol 5 & 6
Button tbl5 = (Button) findViewById(R.id.button5);
Button tbl6 = (Button) findViewById(R.id.button6);
//register handler
tbl5.setOnClickListener(this);
tbl6.setOnClickListener(this);
```

5. Run and see messages at logcat window.