



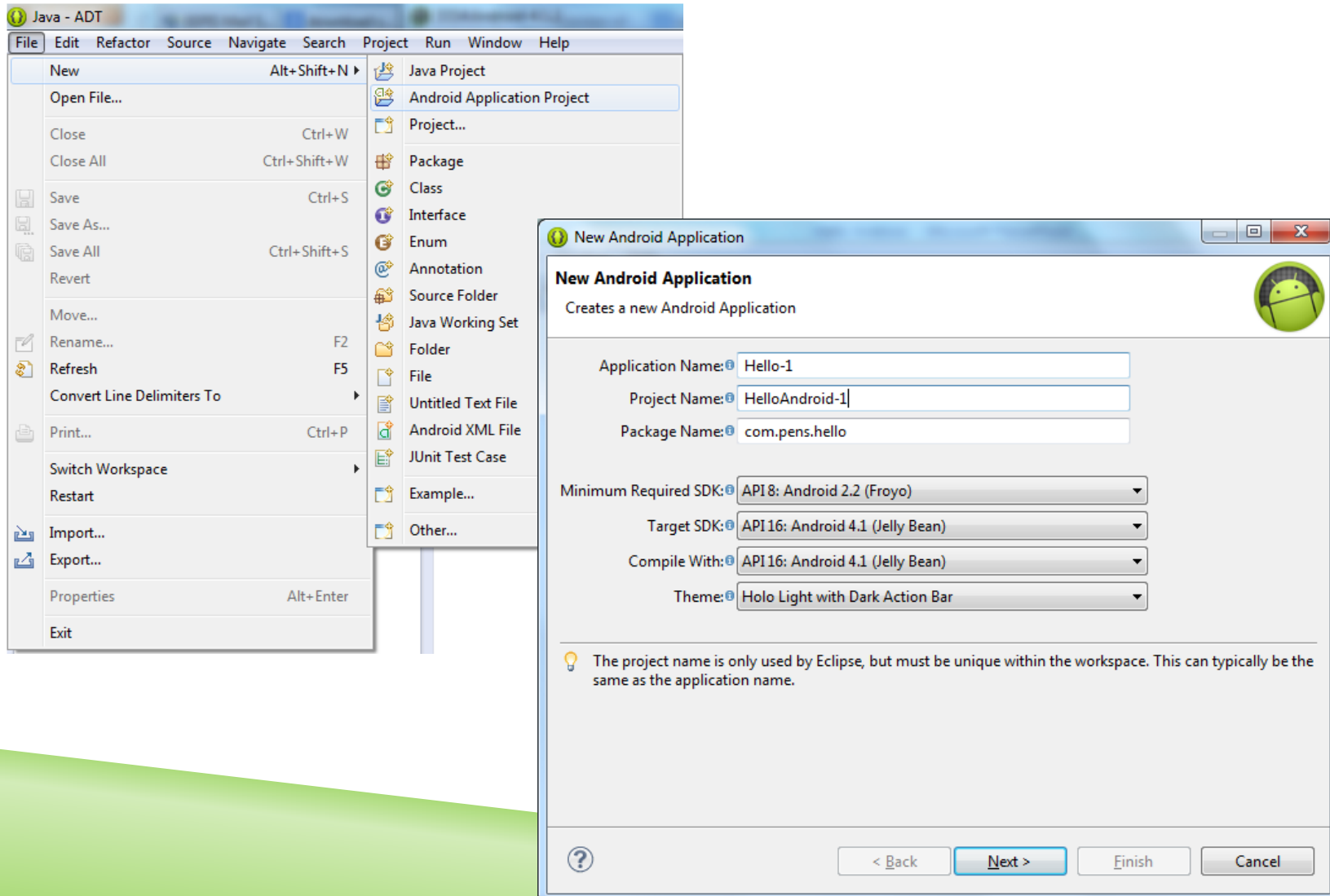
KOMPONEN GUI ANDROID

Ahmad Zainudin

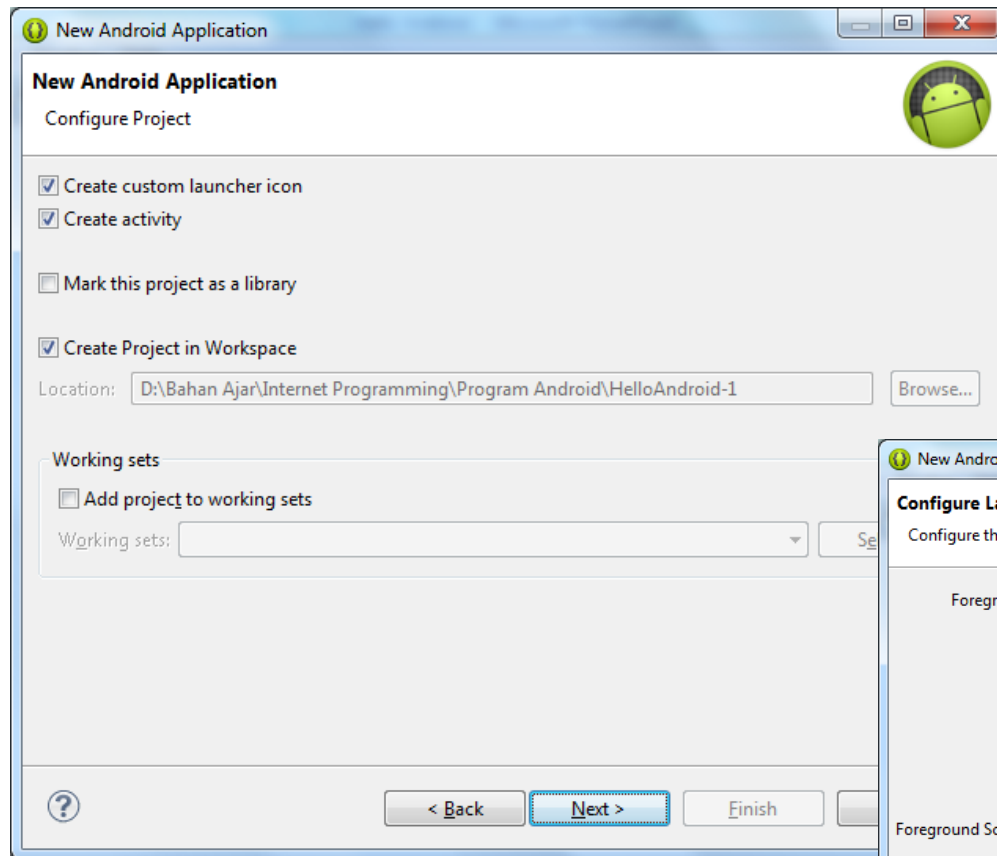
Politeknik Elektronika Negeri Surabaya

PROGRAM HELLO WORLD

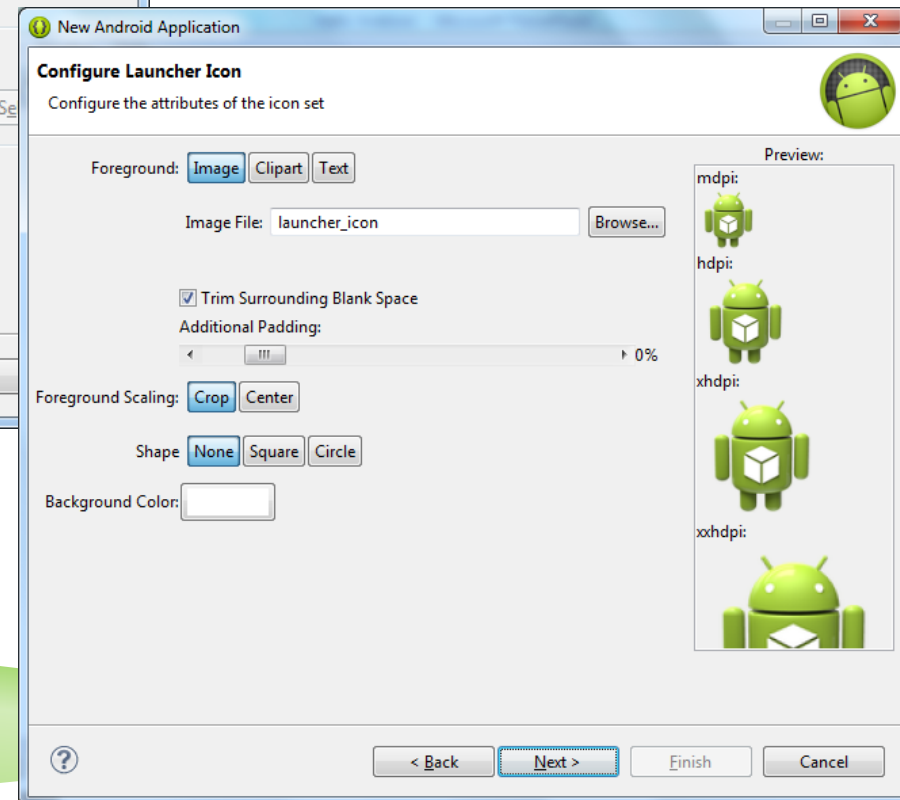
- Buat project baru : File → New → Android Application Project



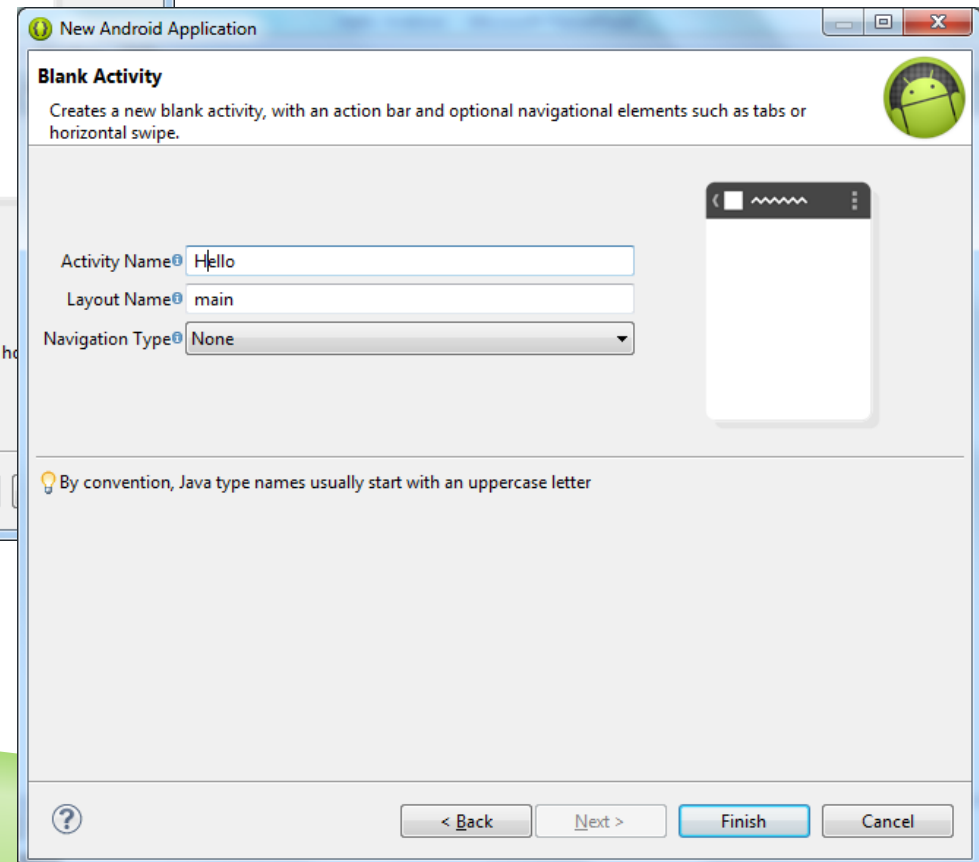
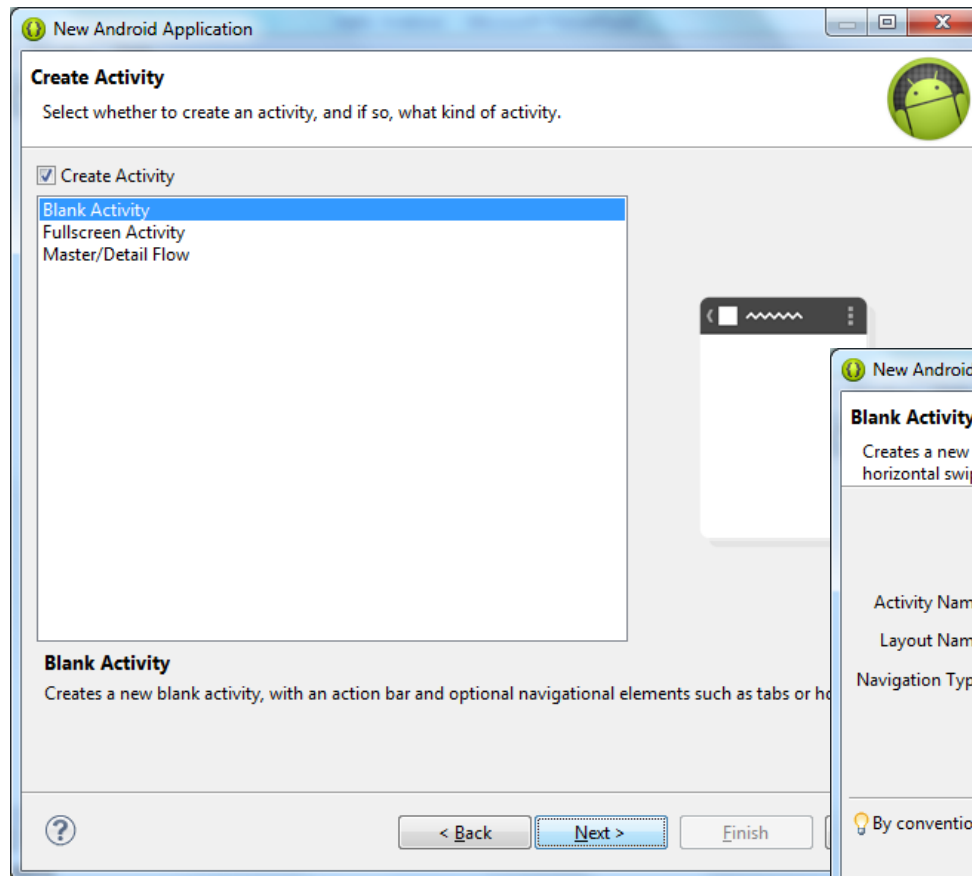
BUAT PROJECT



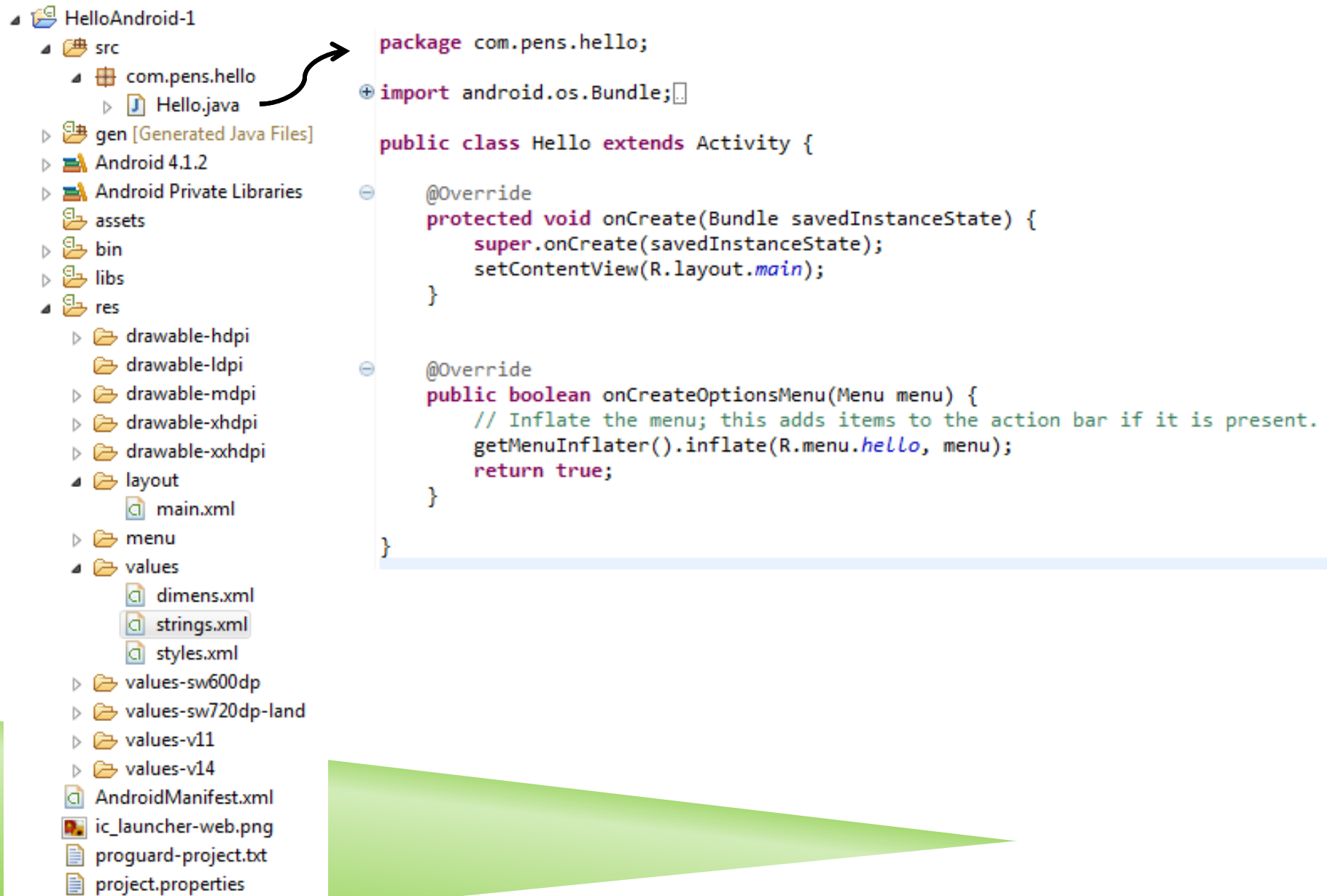
Buat default



BUAT PROJECT



VIEW PROJECT



The image shows a project structure on the left and a code editor on the right. The project structure is for 'HelloAndroid-1' and includes folders like 'src', 'gen', 'Android 4.1.2', 'Android Private Libraries', 'assets', 'bin', 'libs', and 'res'. The 'res' folder contains sub-folders for different screen densities and a 'layout' folder with 'main.xml'. The code editor shows the following Java code:

```
package com.pens.hello;

import android.os.Bundle;

public class Hello extends Activity {

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

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

VIEW PROJECT

- HelloAndroid-1
 - src
 - com.pens.hello
 - Hello.java
 - gen [Generated Java Files]
 - Android 4.1.2
 - Android Private Libraries
 - assets
 - bin
 - libs
 - res
 - drawable-hdpi
 - drawable-ldpi
 - drawable-mdpi
 - drawable-xhdpi
 - drawable-xxhdpi
 - layout
 - main.xml
 - menu
 - values
 - dimens.xml
 - strings.xml
 - styles.xml
 - values-sw600dp
 - values-sw720dp-land
 - values-v11
 - values-v14
 - AndroidManifest.xml
 - ic_launcher-web.png
 - proguard-project.txt
 - project.properties

```
<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=".Hello" >

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/hello_world" />

</RelativeLayout>
```

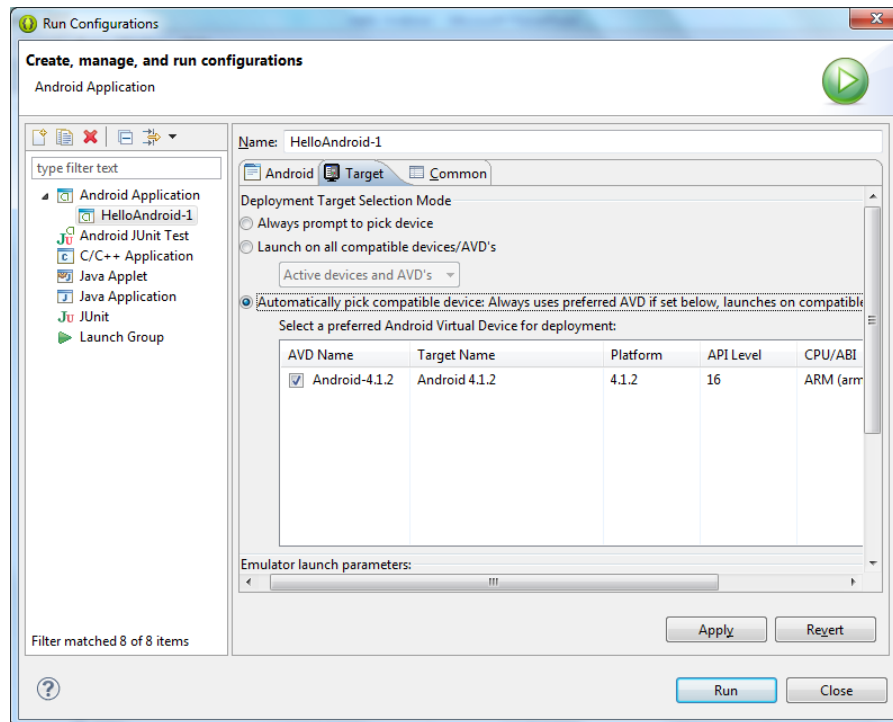
```
<?xml version="1.0" encoding="utf-8"?>
<resources>

    <string name="app_name">Hello-1</string>
    <string name="action_settings">Settings</string>
    <string name="hello_world">Hello world!</string>

</resources>
```

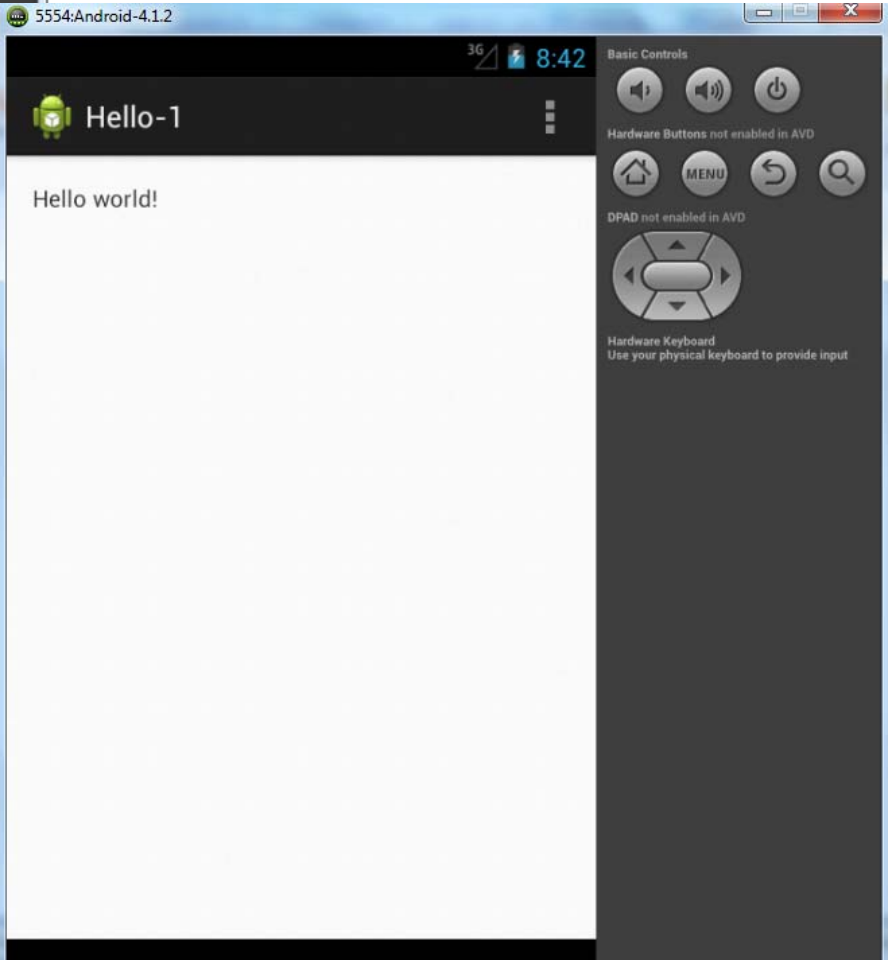
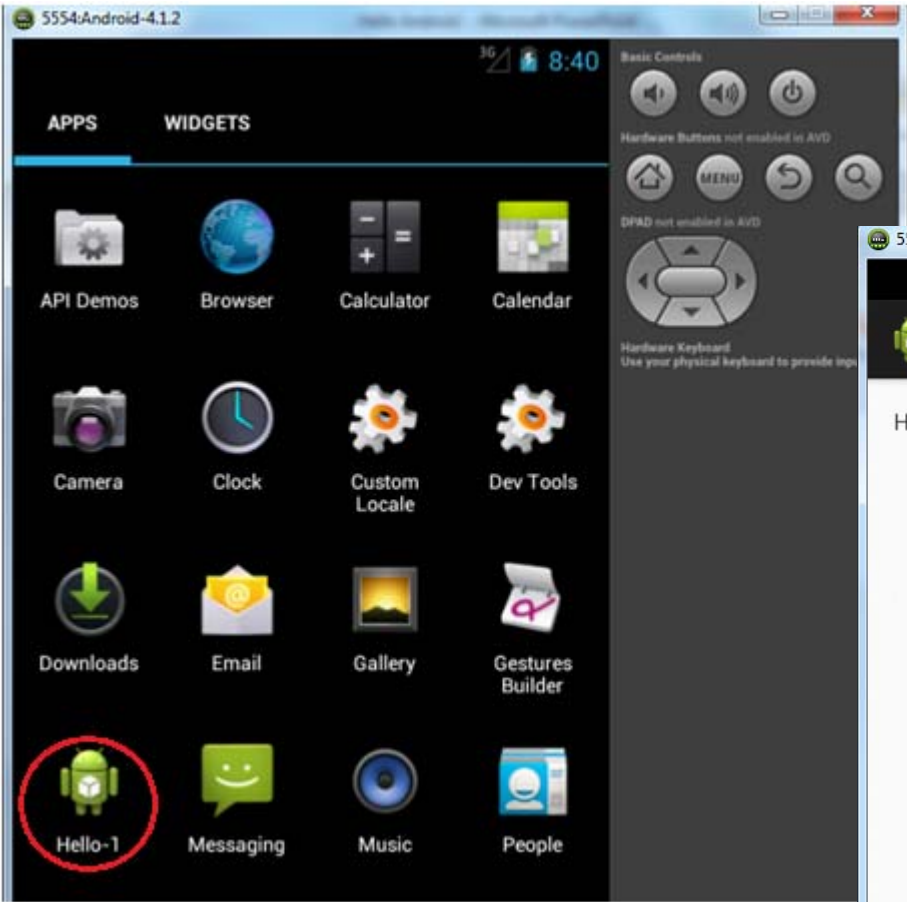
RUN PROGRAM

- Apabila anda pertama kali run program, klik kanan → Run as → Run Configurations → Target → Pilih Emulator yang digunakan → Run



- Kalau pernah dijalankan, klik kanan Run as → Android Application

TANPILAN HELLO WORLD



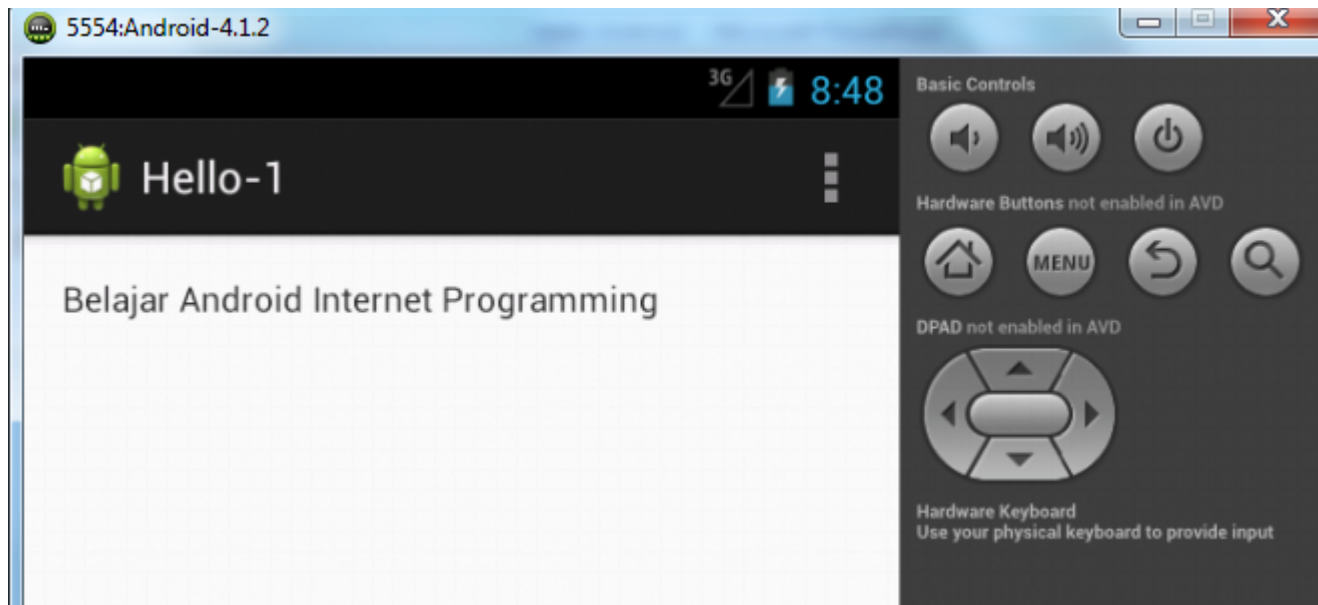
MERUBAH TEXTVIEW

- Pada file string.xml

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

    <string name="app_name">Hello-1</string>
    <string name="action_settings">Settings</string>
    <string name="hello_world">Belajar Android Internet Programming</string>

</resources>
```



MERUBAH TEXTVIEW

- Pada file Hello.java

```
package com.pens.hello;

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

public class Hello extends Activity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        TextView hello = new TextView(this);
        hello.setText("Hello dari file Java");
        setContentView(hello);
    }
}
```

- File main.xml

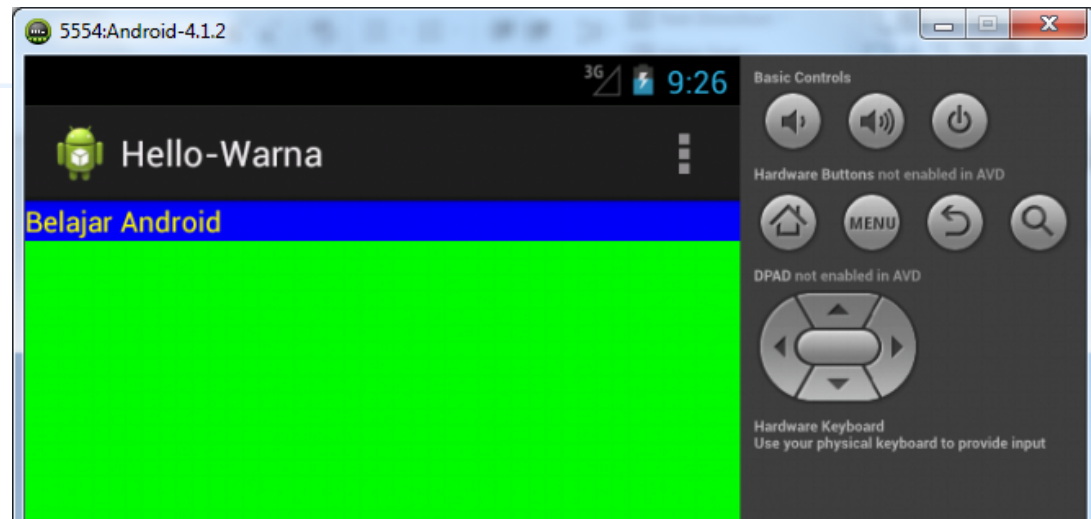
```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent" >
</LinearLayout>
```



WARNA TULISAN DAN BACKGROUND

- Pada file main.xml

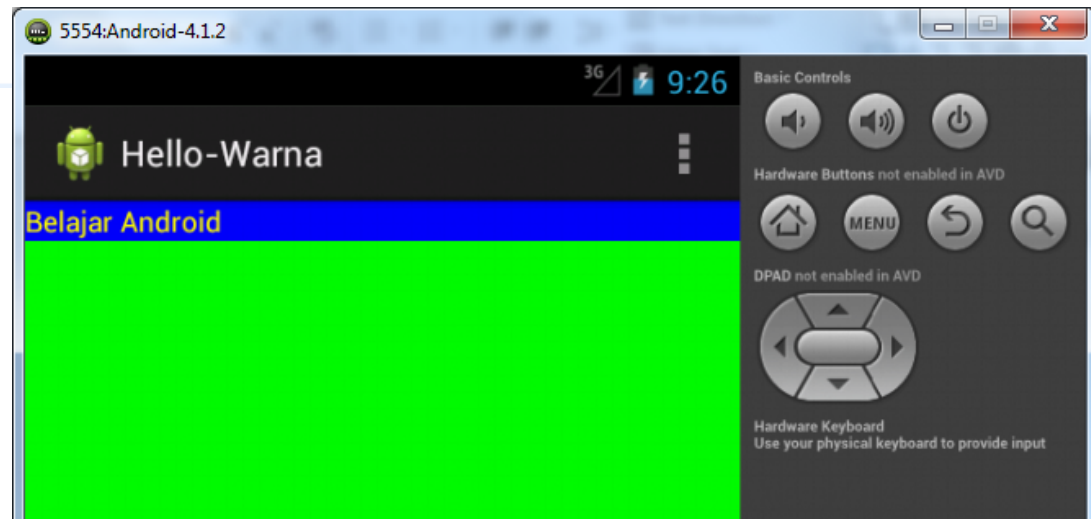
```
<?xml version="1.0" encoding="utf-8"?>  
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
    xmlns:tools="http://schemas.android.com/tools"  
    android:layout_width="fill_parent"  
    android:layout_height="fill_parent"  
    android:background="#ff00ff00" >  
  
    <TextView  
        android:layout_width="fill_parent"  
        android:layout_height="wrap_content"  
        android:textColor="#ffffff00"  
        android:background="#ff0000ff"  
        android:text="Belajar Android"  
    />  
  
</LinearLayout>
```



WARNA TULISAN DAN BACKGROUND

- Pada file main.xml

```
<?xml version="1.0" encoding="utf-8"?>  
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
    xmlns:tools="http://schemas.android.com/tools"  
    android:layout_width="fill_parent"  
    android:layout_height="fill_parent"  
    android:background="#ff00ff00" >  
  
    <TextView  
        android:layout_width="fill_parent"  
        android:layout_height="wrap_content"  
        android:textColor="#ffffff00"  
        android:background="#ff0000ff"  
        android:text="Belajar Android"  
    />  
  
</LinearLayout>
```



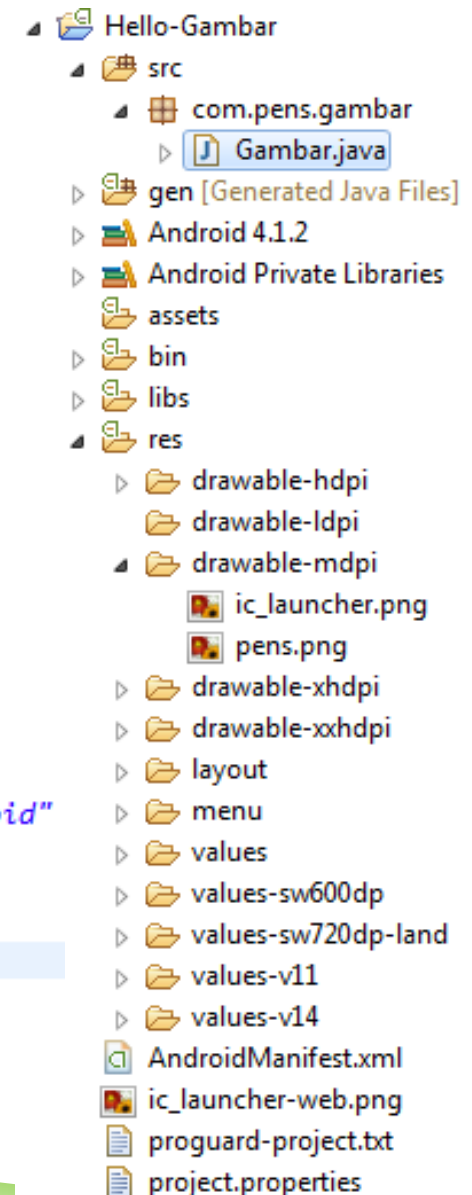
GAMBAR

- Pada file Gambar.java

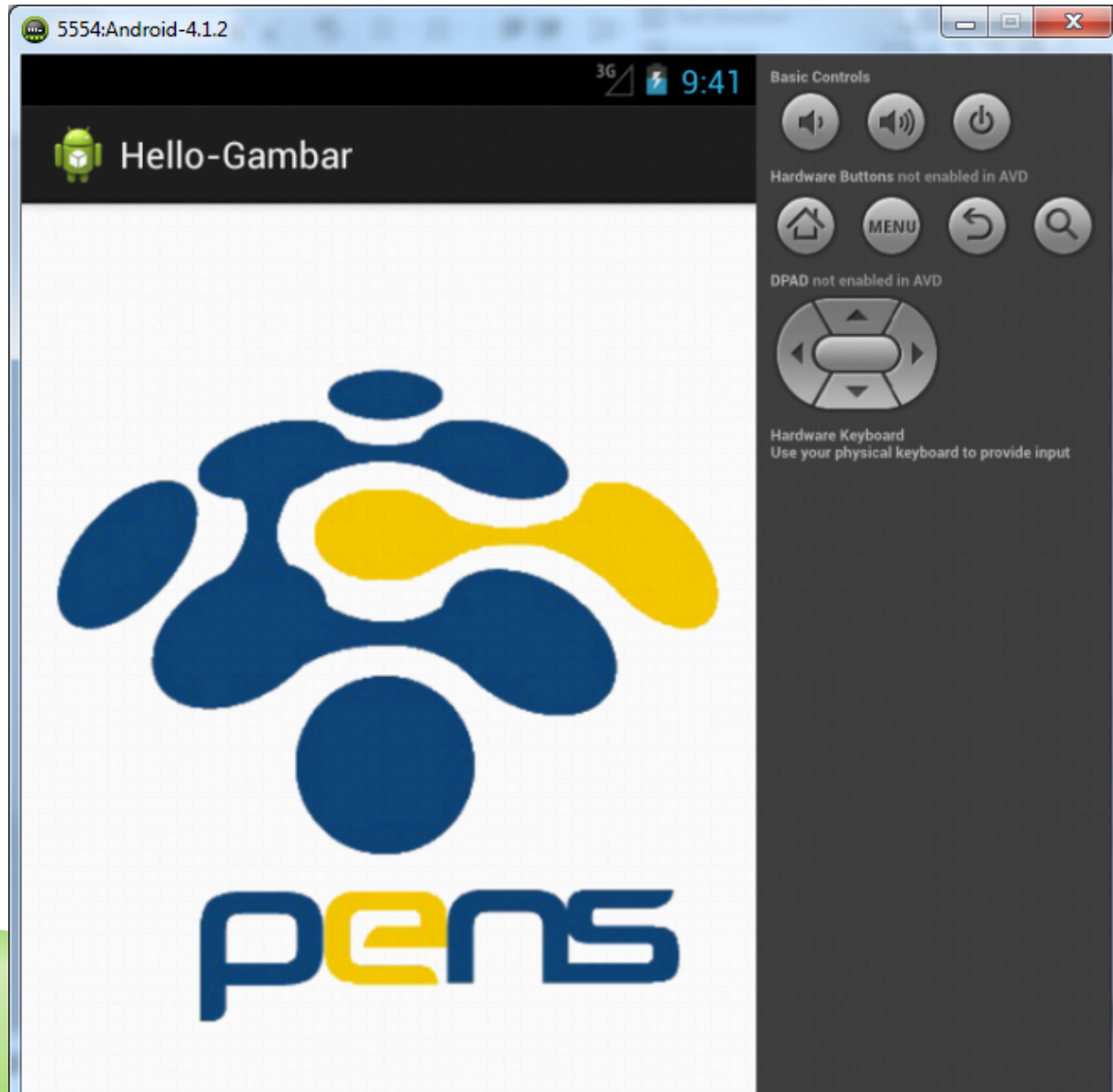
```
package com.pens.gambar;  
  
import android.os.Bundle;  
  
public class Gambar extends Activity {  
  
    @Override  
    protected void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
        ImageView pens = new ImageView(this);  
        pens.setImageResource(R.drawable.pens);  
        setContentView(pens);  
    }  
}
```

- File main.xml

```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
    xmlns:tools="http://schemas.android.com/tools"  
    android:orientation="vertical"  
    android:layout_width="fill_parent"  
    android:layout_height="fill_parent" >  
</LinearLayout>
```



GAMBAR



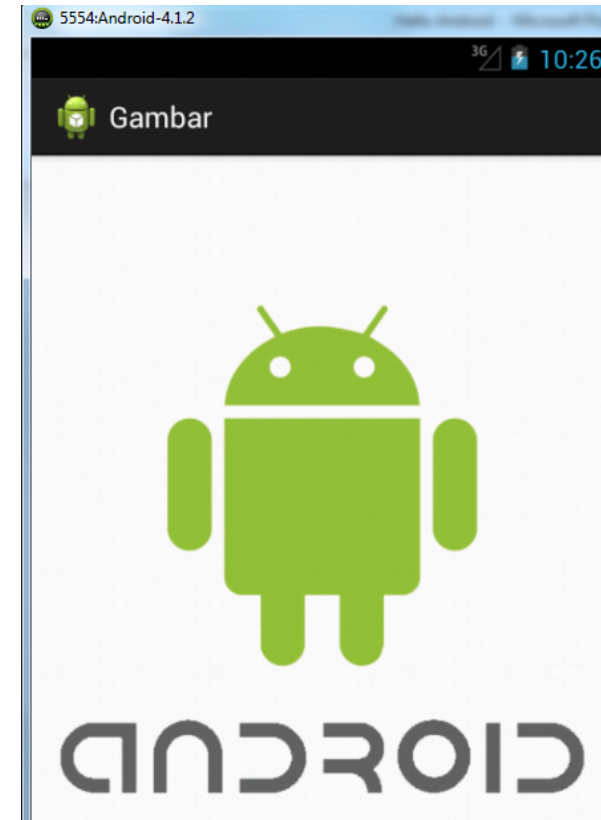
GAMBAR

- File Gambar.java

```
package com.pens.gambar;  
  
import android.os.Bundle;  
  
public class Gambar extends Activity {  
  
    @Override  
    protected void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
        setContentView(R.layout.main);  
    }  
}
```

- Pada file main.xml

```
<?xml version="1.0" encoding="utf-8"?>  
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
    xmlns:tools="http://schemas.android.com/tools"  
    android:orientation="vertical"  
    android:layout_width="fill_parent"  
    android:layout_height="fill_parent" >  
  
    <ImageView android:id="@+id/imageview"  
        android:layout_width="fill_parent"  
        android:layout_height="fill_parent"  
        android:src="@drawable/android"  
    />  
  
</LinearLayout>
```



GABUNGAN

- Pada file main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:orientation="vertical"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent"
    android:background="#ff00ff" >

    <TextView
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:textColor="#ffffff00"
        android:background="#ff0000ff"
        android:text="Internet Programming" />

    <TextView
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:textColor="#ffffff00"
        android:background="#ff0000ff"
        android:text="Politeknik Elektronika Negeri Surabaya" />

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

</LinearLayout>
```


GABUNGAN

- File Gambar.java

```
package com.pens.gambar_2;  
  
import android.os.Bundle;  
  
public class Gambar extends Activity {  
  
    @Override  
    protected void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
        setContentView(R.layout.main);  
    }  
}
```

