Nama : Andhika Dian Pratama

NIM : A11.2020.12870

KEL: 4301

Matkul: Pemrograman Perangkat Bergerak

Pertemuan 1

1. Hello World

Hasil program:



activity_main.xml

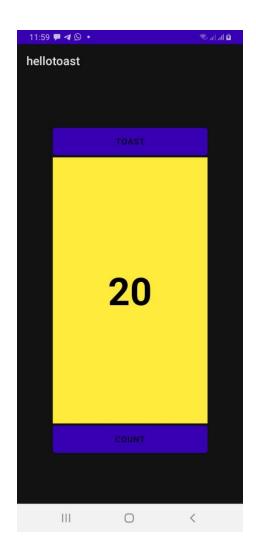
```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
  xmlns:app="http://schemas.android.com/apk/res-auto"
  xmlns:tools="http://schemas.android.com/tools"
  android:layout_width="match_parent"
  android:layout_height="match_parent"
  tools:context=".MainActivity">
  <TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Hello World!"
    app:layout constraintBottom toBottomOf="parent"
    app:layout_constraintLeft_toLeftOf="parent"
    app:layout_constraintRight_toRightOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
MainActivity.java
package com.udinus.helloworld;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
public class MainActivity extends AppCompatActivity {
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
```

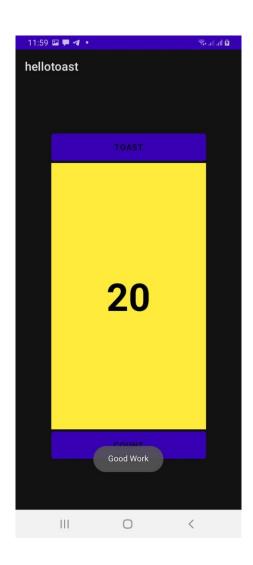
setContentView(R.layout.activity_main);

```
}
```

2. Aplikasi HelloToast

Hasil program :





activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
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"
  tools:context=".MainActivity">
  <Button
    android:id="@+id/button toast"
    android:layout_width="263dp"
    android:layout height="58dp"
    android:onClick="show toast"
    android:text="@string/toast"
    app:backgroundTint="@color/purple_700"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout constraintStart toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.121"
    tools:ignore="MissingConstraints,UsingOnClickInXml" />
  <TextView
    android:id="@+id/show count"
    android:layout width="263dp"
    android:layout_height="452dp"
    android:background="#FFEB3B"
    android:gravity="center"
    android:text="@string/count"
    android:textColor="@color/black"
    android:textSize="65sp"
    android:textStyle="bold"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout constraintEnd toEndOf="parent"
```

```
app:layout_constraintLeft_toLeftOf="parent"
    app:layout constraintRight toRightOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
  <Button
    android:id="@+id/button count"
    android:layout_width="263dp"
    android:layout height="58dp"
    android:onClick="countup"
    android:text="@string/countt"
    app:backgroundTint="@color/purple 700"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout constraintStart toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout constraintVertical bias="0.879"
    tools:ignore="MissingConstraints,UsingOnClickInXml"/>
</androidx.constraintlayout.widget.ConstraintLayout>
MainActivity.java
package com.udinus.hellotoast;
import androidx.appcompat.app.AppCompatActivity;
import android.annotation.SuppressLint;
import android.os.Bundle;
import android.view.View;
import android.widget.TextView;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {
private int mCount = 0;
private TextView mShowCount;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
```

```
setContentView(R.layout.activity_main);
mShowCount = findViewById(R.id.show_count);
}

public void show_toast(View view) {
    Toast toast = Toast.makeText(this, "Good Work", Toast.LENGTH_LONG);
    toast.show();
}

@SuppressLint("SetTextI18n")
public void countup(View view) {
    mCount++;
    if (mShowCount != null){
        mShowCount.setText(Integer.toString(mCount));
    }
}
```

3. Aplikasi Profil

Hasil program:



activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout 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:id="@+id/utama"
  android:layout width="match parent"
  android:layout height="match parent"
  android:padding="10dp"
  tools:context=".MainActivity">
  <ImageView
    android:id="@+id/imageView3"
    android:layout width="195dp"
    android:layout height="251dp"
    android:layout_alignParentStart="true"
    android:layout alignParentTop="true"
    android:layout_alignParentEnd="true"
    android:layout alignParentBottom="true"
    android:layout marginStart="134dp"
    android:layout_marginTop="193dp"
    android:layout_marginEnd="131dp"
    android:layout_marginBottom="335dp"
    app:srcCompat="@drawable/gambardhika" />
  <TextView
    android:id="@+id/nim"
    android:layout_width="wrap_content"
    android:layout height="wrap content"
    android:text="NIM
                          : A11.2020.12870 "
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintLeft_toLeftOf="parent"
    app:layout_constraintRight_toRightOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
  <TextView
    android:id="@+id/nama"
    android:layout width="wrap content"
```

```
android:layout height="wrap content"
  android:layout below="@+id/nim"
  android:paddingTop="10dp"
  android:text="Nama
                      : Andhika Dian Pratama"
  app:layout constraintBottom toBottomOf="parent"
  app:layout_constraintLeft_toLeftOf="parent"
  app:layout constraintRight toRightOf="parent"
  app:layout_constraintTop_toTopOf="parent" />
<TextView
  android:id="@+id/alamat"
  android:layout width="wrap content"
  android:layout_height="wrap_content"
  android:layout_below="@+id/nama"
  android:paddingTop="10dp"
  android:text="Alamat : JL.Magersari 2 No 37, Semarang"
  app:layout constraintBottom toBottomOf="parent"
  app:layout_constraintLeft_toLeftOf="parent"
  app:layout_constraintRight_toRightOf="parent"
  app:layout_constraintTop_toTopOf="parent" />
<TextView
  android:id="@+id/telepon"
  android:layout width="wrap content"
  android:layout_height="wrap_content"
  android:layout_below="@+id/alamat"
  android:paddingTop="10dp"
  android:text="Telepon: 0895360675222"
  app:layout constraintBottom toBottomOf="parent"
  app:layout_constraintLeft_toLeftOf="parent"
  app:layout constraintRight toRightOf="parent"
  app:layout constraintTop toTopOf="parent" />
<TextView
  android:id="@+id/email"
  android:layout width="wrap content"
  android:layout height="wrap content"
  android:layout below="@+id/telepon"
  android:paddingTop="10dp"
  android:text="Email: 111202012870@mhs.dinus.ac.id"
  app:layout constraintBottom toBottomOf="parent"
  app:layout_constraintLeft_toLeftOf="parent"
```

```
app:layout_constraintRight_toRightOf="parent" app:layout_constraintTop_toTopOf="parent" />

</RelativeLayout>

MainActivity.java

package com.example.profil;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

public class MainActivity extends AppCompatActivity {

@Override
protected void onCreate(Bundle savedInstanceState) {
```

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

}

4. Aplikasi Scrolling Text

Hasil program:





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activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<ScrollView xmlns:android="http://schemas.android.com/apk/res/android"</p>
  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:scrollbars="vertical"
  android:padding="10dp"
  tools:context=".MainActivity">
  <LinearLayout
    android:layout width="match parent"
    android:layout_height="match_parent"
    android:orientation="vertical">
    <TextView
      android:id="@+id/textview"
      android:layout width="match parent"
      android:layout_height="wrap_content"
      android:layout marginBottom="20dp"
      android:text="Sejarah Perkembangan Komputer Generasi Pertama (1940-1959)"
      android:textAlignment="center"
      android:textStyle="bold"/>
    <ImageView
      android:id="@+id/imageView"
      android:layout_width="match_parent"
      android:layout_height="287dp"
      app:srcCompat="@drawable/img"/>
    <TextView
      android:id="@+id/textview2"
      android:layout_width="match_parent"
      android:layout_height="232dp"
      android:layout marginTop="20dp"
      android:text="@string/textview2" />
    <TextView
      android:id="@+id/textview3"
```

```
android:layout_width="match_parent"
      android:layout_height="wrap_content"
      android:layout_marginBottom="10dp"
      android:textStyle="bold"
      android:text="@string/textview3"/>
    <TextView
      android:id="@+id/textview4"
      android:layout_width="match_parent"
      android:layout_height="595dp"
      android:text="@string/textview4"/>
  </LinearLayout>
</ScrollView>
MainActivity.java
package com.example.scrollview;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
public class MainActivity extends AppCompatActivity {
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
  }
}
```