LATIHAN LAYOUT LANJUTAN

Latihan 1. Table Layout

a. Tulis ulang kode berikut dan screenshoot tampilannya! *Note: Kode program harus di running pada device*

```
<?xml version="1.0" encoding="utf-8"?>
<TableLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout width="match parent"
    android:layout height="match parent" android:stretchColumns="1">
        android:background="#22ff">
        <TextView
            android:layout column="1"
            android:text="Open..."
            android:padding="3dip" />
        <TextView android:text="Ctrl-
            O" android:gravity="right"
            android:padding="3dip" />
    </TableRow>
    <TableRow android:background="#22ff">
        <TextView
            android:layout column="1"
            android: text="Save..."
            android:padding="3dip" />
        <TextView android:text="Ctrl-
            S" android:gravity="right"
            android:padding="3dip" />
    </TableRow>
    <TableRow android:background="#22ff">
        <TextView
            android:layout column="1"
            android:text="Save As..."
            android:padding="3dip" />
        <TextView android:text="Ctrl-
            Shift-S"
            android:gravity="right"
            android:padding="3dip" />
    </TableRow>
    <View android:layout height="2dip"</pre>
        android:background="#FF909090" />
        <TableRow
        android:background="#ffff00">
        <TextView android:text="X"
            android:padding="3dip" />
        <TextView
            android:text="Import..."
            android:padding="3dip" />
    </TableRow>
    <TableRow android:background="#ffff00">
        <TextView android:text="X"
            android:padding="3dip" />
```

```
<TextView
            android:text="Export..."
            android:padding="3dip" />
        <TextView android:text="Ctrl-
            E" android:gravity="right"
            android:padding="3dip" />
    </TableRow>
    <View android:layout height="2dip"</pre>
        android:background="#FF909090" />
    <TableRow android:background="#aaf">
        <TextView
            android:layout column="1"
            android:text="Quit"
            android:padding="3dip" />
    </TableRow>
</TableLayout>
```

Latihan 2. Frame Layout

a. Tulis ulang kode berikut dan screenshoot tampilannya!

```
<?xml version="1.0" encoding="utf-8"?>
<FrameLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
    android: layout width="match parent"
   android: layout height="match parent">
   <View
       android:layout width="match parent"
       android:layout_height="match_parent"
       android:background="@android:color/holo_blue_light"/>
    < ImageView
       android: layout width="match parent"
       android: layout height="match parent"
       android:src="@mipmap/ic launcher" />
    <View
       android:layout width="50dp"
       android: layout height="match parent"
       android:background="@android:color/holo_orange_light"/>
    <View
       android:layout width="50dp"
       android:layout_height="match parent"
       android:layout gravity="right"
       android:background="@android:color/holo orange light"/>
</FrameLayout>
```

Ket: android color harus di daftarkan terlebih dahulu di file color.xml

Latihan 3. Frame Layout

a. Jika ingin membuat tampilan yang bertumpuk bisa menggunakan frame layout. Tulis ulang kode berikut dan screenshoot tampilannya!

```
<?xml version="1.0" encoding="utf-8"?>
<FrameLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    android:id="@+id/mainlayout"
    android: layout width="fill parent"
    android:layout height="fill parent"
    android:orientation="vertical" >
    <!--Red square -->
    <View
         android:layout width="250dp"
         android: layout height="250dp"
         android:background="#FFFF0000" />
    <!--White square -->
    <View
         android:layout_width="150dp"
         android: layout height="150dp"
         android:background="#FFFFFFF" />
</FrameLayout>
```

Latihan 4: Grid Layout

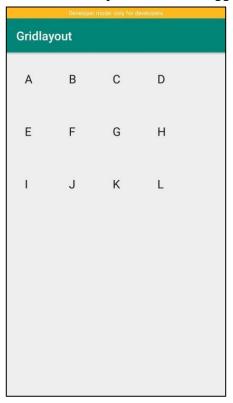
a. Tulis ulang kode berikut dan screenshoot tampilannya!

```
<GridLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/GridLayout1"
    android: layout width="wrap content"
    android: layout height="wrap_content"
    android:columnCount="2"
    android:rowCount="2"
    android:orientation="horizontal"
    tools:context=".GridLayoutActivity">
    <Button
        android:id="@+id/button1"
        android:layout gravity="left|top"
        android:text="Button" />
        android:id="@+id/button2"
        android: layout gravity="left|top"
        android:text="Button" />
    <Button
        android:id="@+id/button3"
        android:layout gravity="left|top"
        android:text="Button" />
        android:id="@+id/button4"
        android:layout_gravity="left|top"
        android:text="Button" />
</GridLayout>
```

Tampilan kode program latihan 4 diatas:



a. Buatlah kode program XML untuk tampilan button menggunakan grid seperti di bawah ini!



Latihan 6. Constraint Layout:

1. Tulis ulang kode program berikut dan *screenshoot* tampilannya ketika dijalankan di device android.

Ket: simpan resource gambar yang diberikan pada drawable seperti di bawah ini:



2. Pahami kode dan konsep constraint dari kode program berikut!

```
<?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"
    android:background="@drawable/ic_launcher_background">

<FrameLayout android:id="@+id/imageView2"
    android:layout_width="100dp"
    android:layout_height="100dp"
    android:layout_height="100dp"
    android:layout_constraintLeft_toLeftOf="parent"
    app:layout_constraintRight_toRightOf="parent"
    "app:layout_constraintTop_toTopOf="parent"
    "
```

```
<ImageView</pre>
        android:layout width="match parent"
        android:layout height="match parent"
        android:src="@drawable/envelope" />
    <View android:layout width="10dp"</pre>
        android:layout height="match parent"
        android:background="@android:color/holo orange light"/>
    <View android:layout width="10dp"</pre>
        android:layout height="match parent"
        android:layout gravity="right"
        android:background="@android:color/holo orange light"/>
</FrameLayout>
<LinearLayout android:id="@+id/linearLayout"</pre>
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:layout marginTop="80dp"
    android:background="#ffffff"
    android:orientation="horizontal"
    app:layout constraintLeft toLeftOf="parent"
    app:layout constraintRight toRightOf="parent"
    app:layout constraintTop toBottomOf="@+id/imageView2"
    <ImageView</pre>
        android:layout width="30dp"
        android:layout height="30dp"
        android:layout gravity="center"
        android:layout margin="10dp"
        android:background="#ffffff"
        android:src="@drawable/user"/>
    <EditText android:id="@+id/username"
        android:layout width="298dp"
        android:layout height="48dp"
        android:background="#ffffff"
        android:ems="10" android:hint="Email"
        android:inputType="textPersonName"
        app:layout constraintLeft toLeftOf="parent"
        app:layout constraintRight toRightOf="paren
        t" tools:layout editor absoluteY="231dp"
        />
</LinearLayout>
<LinearLayout android:id="@+id/linearLayout2"</pre>
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:background="#ffffff"
    app:layout constraintLeft toLeftOf="parent"
    app:layout_constraintRight_toRightOf="parent"
    app:layout constraintTop toBottomOf="@+id/linearLayout"
    <ImageView</pre>
        android:layout width="30dp"
        android:layout height="30dp"
        android:layout gravity="center"
        android:layout margin="10dp"
        android:src="@drawable/lock" />
```

```
<EditText android:id="@+id/password"
        android:layout width="298dp"
        android:layout height="48dp"
        android:background="#ffffff" android:ems="10"
        android:hint="Password"
        android:inputType="textPassword"
        app:layout_constraintHorizontal_bias="0.523"
        app:layout constraintLeft toLeftOf="parent"
        app:layout constraintRight toRightOf="parent"
        tools:layout editor absoluteY="279dp" />
</LinearLayout>
<Button
   android:id="@+id/tombol login"
    android:layout width="347dp"
    android:layout_height="44dp"
    android:layout marginLeft="8dp"
    android:layout marginRight="8dp"
    android:layout marginTop="16dp"
   android:background="#ff6f00"
   android:text="Login"
   android:textColor="#ffffff"
   android:textSize="20sp"
   app:layout_constraintHorizontal bias="0.523"
   app:layout constraintLeft toLeftOf="parent"
   app:layout constraintRight toRightOf="parent"
   app:layout constraintTop toBottomOf="@+id/linearLayout2" />
<Button
    android:id="@+id/tombol guest"
    android:layout width="347dp"
    android:layout height="46dp"
    android:layout marginTop="10dp"
   android:background="#2196f3"
    android:text="guest"
    android:textColor="#ffffff"
    android:textSize="20sp"
   app:layout_constraintHorizontal bias="0.502"
   app:layout constraintLeft toLeftOf="parent"
   app:layout constraintRight toRightOf="parent"
   app:layout constraintTop toBottomOf="@+id/tombol login" />
<Button
    android:id="@+id/tombol_lupa_password"
   android:layout width="wrap content"
   android:layout height="wrap content"
   android:layout marginLeft="8dp"
   android:layout marginRight="8dp"
   android:background="#00000000"
   android:text="Forgot your password?"
   android:textAllCaps="false"
   android:textColor="#ffffff"
   app:layout constraintBottom toBottomOf="parent"
   app:layout constraintHorizontal bias="0.497"
   app:layout constraintLeft toLeftOf="parent"
   app:layout constraintRight toRightOf="parent"
   app:layout_constraintTop toBottomOf="@+id/tombol login"
   app:layout constraintVertical bias="0.319" />
```

Berkas yang dikumpulkan:

- 1. File Word yang berisi **nama_nim**.docx yang di dalamnya memuat:
 - a. Hasil screeshoot di setiap latihan
 - b. Link github/gitlab kode program latihan 1-6