

TUGAS  
PRATIUM PEMOGRAMAN SISTEM BERGERAK

“Laporan Layout”



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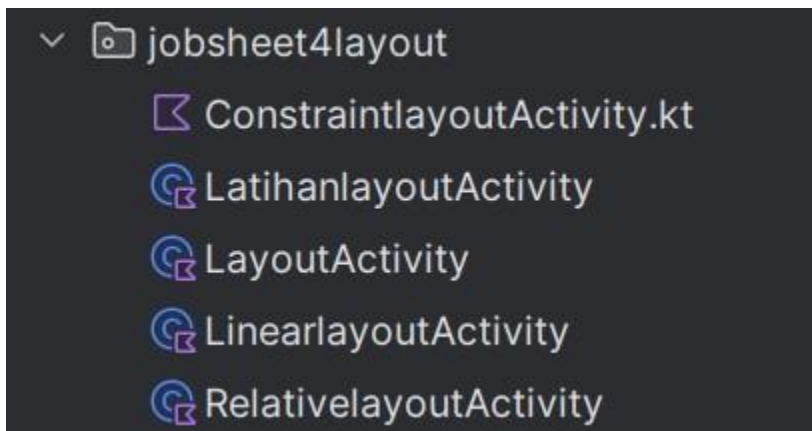
UNIVERSITAS NEGERI PADANG  
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## 1. Membuat Menu Layout

Perbarui kode pada MainActivity.kt

```
val buttonPertemuan6 = findViewById<Button>(R.id.button_pertemuan6)
buttonPertemuan6.setOnClickListener{ it: View!
    val intent = Intent( packageContext: this, LayoutActivity::class.java)
    startActivity(intent)
}
```

Buat Package baru dengan nama jobsheet4layout dengan cara klik New > Package :



Buat Activity baru pada jobsheet4layout dengan nama LayoutActivity.kt dan buatlah kode seperti di bawah berikut :

```
1 package com.rudi.belajarkotlin1.jobsheet4layout
2
3 > import ...
4
5
6
7
8
9
10 class LayoutActivity : AppCompatActivity() {
11     override fun onCreate(savedInstanceState: Bundle?) {
12         super.onCreate(savedInstanceState)
13         enableEdgeToEdge()
14         setContentView(R.layout.activity_layout)
15
16         val buttonLinearLayout = findViewById<Button>(R.id.button_linearlayout)
17         buttonLinearLayout.setOnClickListener { it: View!
18             val intent = Intent(packageContext: this, LinearLayoutActivity::class.java)
19             startActivity(intent)
20         }
21         val buttonRelativeLayout = findViewById<Button>(R.id.button_relativelayout)
22         buttonRelativeLayout.setOnClickListener { it: View!
23             val intent = Intent(packageContext: this, RelativeLayoutActivity::class.java)
24             startActivity(intent)
25         }
26         val buttonConstraintLayout = findViewById<Button>(R.id.button_constraintlayout)
27         buttonConstraintLayout.setOnClickListener { it: View!
28             val intent = Intent(packageContext: this, ConstraintLayoutActivity::class.java)
29             startActivity(intent)
30         }
31         val buttonLinearLayout = findViewById<Button>(R.id.button_linearlayout)
32     }
33 }
```

sheet4layout > LayoutActivity > onCreate 36:6 LF UTF-8 4 spac

Buat Activity baru dengan nama LinearLayoutActivity.kt dan isikan kode berikut:

```

1  package com.rudi.belajarkotlin1.jobsheet4layout
2
3  > import ...
4
5
6
7
8  class LinearlayoutActivity : AppCompatActivity() {
9      override fun onCreate(savedInstanceState: Bundle?) {
10         super.onCreate(savedInstanceState)
11         enableEdgeToEdge()
12         setContentView(R.layout.activity_linearlayout)
13     }
14 }

```

Buat Activity baru dengan nama RelativeLayout.kt dan isikan kode berikut:

```

1  package com.rudi.belajarkotlin1.jobsheet4layout
2
3  > import ...
4
5
6
7
8  class RelativeLayoutActivity : AppCompatActivity() {
9      override fun onCreate(savedInstanceState: Bundle?) {
10         super.onCreate(savedInstanceState)
11         enableEdgeToEdge()
12         setContentView(R.layout.activity_relativelayout)
13     }
14 }

```

Buat Activity baru dengan nama Constraintlayout.kt dan isikan kode berikut:

```
1 package com.rudi.belajarkotlin1.jobsheet4layout
2
3 > import ...
7
8 class Constraintlayout : AppCompatActivity() {
9     override fun onCreate(savedInstanceState: Bundle?) {
10         super.onCreate(savedInstanceState)
11         enableEdgeToEdge()
12         setContentView(R.layout.activity_constraintlayout)
13     }
14 }
```

## 2. Menambahkan Komponen UI

Isikan kode xml ke activity\_layout dengan Root Tag LinearLayout seperti berikut:

```
1 |<?xml version="1.0" encoding="utf-8"?>
2 |<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
3 |    android:layout_width="match_parent"
4 |    android:layout_height="match_parent"
5 |    android:orientation="vertical"
6 |    android:layout_marginTop="75dp"
7 |    >
8 |    <TextView
9 |        android:layout_width="match_parent"
10 |        android:layout_height="wrap_content"
11 |        android:text="Belajar Layout Android"
12 |        android:layout_marginTop="10dp"
13 |        android:layout_marginLeft="10dp"
14 |        android:textSize="15dp"
15 |        android:textFontWeight="800"
16 |        android:gravity="center"
17 |    >
18 |</TextView>
19 |<LinearLayout
20 |    android:layout_width="match_parent"
21 |    android:layout_height="wrap_content"
22 |    android:layout_margin="10dp"
23 |    >
24 |    <Button
```

```
25         android:id="@+id/button_linearlayout"
26         android:layout_width="wrap_content"
27         android:layout_height="wrap_content"
28         android:layout_centerInParent="true"
29         android:text="Linear Layout" />
30     </LinearLayout>
31     <LinearLayout
32         android:layout_width="match_parent"
33         android:layout_height="wrap_content"
34         android:layout_margin="10dp"
35     >
36         <Button
37             android:id="@+id/button_relativelayout"
38             android:layout_width="wrap_content"
39             android:layout_height="wrap_content"
40             android:layout_centerInParent="true"
41             android:text="Relative Layout" />
42     </LinearLayout>
43     <LinearLayout
44         android:layout_width="match_parent"
45         android:layout_height="wrap_content"
46         android:layout_margin="10dp"
47     >
48         <Button
```



```

48         <Button
49             android:id="@+id/button_constraintlayout"
50             android:layout_width="wrap_content"
51             android:layout_height="wrap_content"
52             android:layout_centerInParent="true"
53             android:text="Constraint Layout" />
54     </LinearLayout>
55     <LinearLayout
56         android:layout_width="match_parent"
57         android:layout_height="wrap_content"
58         android:layout_margin="10dp"
59     >
60         <Button
61             android:id="@+id/button_latihanlayout"
62             android:layout_width="wrap_content"
63             android:layout_height="wrap_content"
64             android:layout_centerInParent="true"
65             android:text="Latihan Layout" />
66     </LinearLayout>
67 </LinearLayout>

```

Isikan kode xml ke activity\_linearlayout dengan Root Tag LinearLayout seperti berikut:



```

1      <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
2          android:layout_width="match_parent"
3          android:layout_height="match_parent"
4          android:orientation="vertical"
5          android:layout_marginTop="95dp"
6          android:padding="16dp">
7          <TextView
8              android:id="@+id/textView"
9              android:layout_width="wrap_content"
10             android:layout_height="wrap_content"
11             android:text="Linear Layout Example"
12             android:textSize="18sp" />
13          <EditText
14              android:id="@+id/editText"
15              android:layout_width="match_parent"
16              android:layout_height="wrap_content"
17              android:hint="Enter your name" />
18          <Button
19              android:id="@+id/button"
20              android:layout_width="wrap_content"
21              android:layout_height="wrap_content"
22              android:text="Submit" />
23          <ImageView
24              android:id="@+id/imageView"
25              android:layout_width="wrap_content"
26              android:layout_height="wrap_content"
27              android:src="@drawable/ic_launcher_foreground" />
28      </LinearLayout>

```

Isikan kode xml ke activity\_relativelayout dengan Root Tag RelativeLayout seperti berikut:

```

1      <RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
2          android:layout_width="match_parent"
3          android:layout_height="match_parent"
4          android:layout_marginTop="95dp"
5          android:padding="16dp">
6          <TextView
7              android:id="@+id/textViewRelative"
8              android:layout_width="wrap_content"
9              android:layout_height="wrap_content"
10             android:text="Relative Layout Example"
11             android:textSize="18sp" />
12          <Button
13              android:id="@+id/buttonRelative"
14              android:layout_width="wrap_content"
15              android:layout_height="wrap_content"
16              android:text="Submit"
17              android:layout_below="@id/textViewRelative"
18              android:layout_marginTop="16dp" />
19          <ImageView
20              android:id="@+id/imageViewRelative"
21              android:layout_width="wrap_content"
22              android:layout_height="wrap_content"
23              android:src="@drawable/ic_launcher_foreground"
24              android:layout_alignParentRight="true"
25              android:layout_alignParentTop="true" />
26      </RelativeLayout>

```

Isikan kode xml ke activity\_constraintlayout dengan Root Tag Constraintlayout seperti berikut:

```

1  <androidx.constraintlayout.widget.ConstraintLayout
2      xmlns:android="http://schemas.android.com/apk/res/android"
3      android:layout_width="match_parent"
4      android:layout_height="match_parent"
5      xmlns:app="http://schemas.android.com/apk/res-auto"
6      android:layout_marginTop="95dp"
7      android:padding="16dp">
8      <TextView
9          android:id="@+id/textViewConstraint"
10         android:layout_width="wrap_content"
11         android:layout_height="wrap_content"
12         android:text="Constraint Layout Example"
13         android:textSize="18sp"
14         app:layout_constraintTop_toTopOf="parent"
15         app:layout_constraintStart_toStartOf="parent"
16         app:layout_constraintEnd_toEndOf="parent" />
17      <Button
18          android:id="@+id/buttonConstraint"
19          android:layout_width="wrap_content"
20          android:layout_height="wrap_content"
21          android:text="Submit"
22          app:layout_constraintTop_toBottomOf="@id/textViewConstraint"
23          app:layout_constraintStart_toStartOf="parent"
24          app:layout_constraintEnd_toEndOf="parent"
25          android:layout_marginTop="16dp" />
26      <ImageView
27          android:id="@+id/imageViewConstraint"
28          android:layout_width="wrap_content"
29          android:layout_height="wrap_content"
30          android:src="@drawable/ic_launcher_foreground"
31          app:layout_constraintTop_toBottomOf="@id/buttonConstraint"
32          app:layout_constraintStart_toStartOf="parent"
33          app:layout_constraintEnd_toEndOf="parent"
34          android:layout_marginTop="16dp" />
35  </androidx.constraintlayout.widget.ConstraintLayout>

```

Tampilan dari :



**Latihan**

Buatlah aplikasi Android menggunakan Linear Layout dengan orientasi horizontal.

Tampilan tersebut berisi komponen berikut:

1. TextView yang menampilkan teks "Tugas layout".
2. EditText untuk menginput nama pengguna.
3. Button dengan teks "Kirim" yang akan menampilkan toast ketika ditekan.

Semua komponen harus disusun secara horizontal di dalam layout.

```
1 package com.rudi.belajarkotlin1.jobsheet4layout
2
3 > import ...
4
5
6
7
8
9
10 class LatihanlayoutActivity : AppCompatActivity() {
11
12     override fun onCreate(savedInstanceState: Bundle?) {
13         super.onCreate(savedInstanceState)
14         setContentView(R.layout.activity_latihanlayout)
15
16         val editTextName = findViewById<EditText>(R.id.editTextName)
17         val buttonKirim = findViewById<Button>(R.id.buttonKirim)
18
19         buttonKirim.setOnClickListener { it: View!
20             val name = editTextName.text.toString()
21             Toast.makeText(context: this, text: "Nama: $name", Toast.LENGTH_SHORT).show()
22         }
23     }
24 }
```





9:32



## Belajar Kotlin

Linear Layout Example

Najwa

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SUBMIT



Hold and drag to move  
toolbar

Got it

