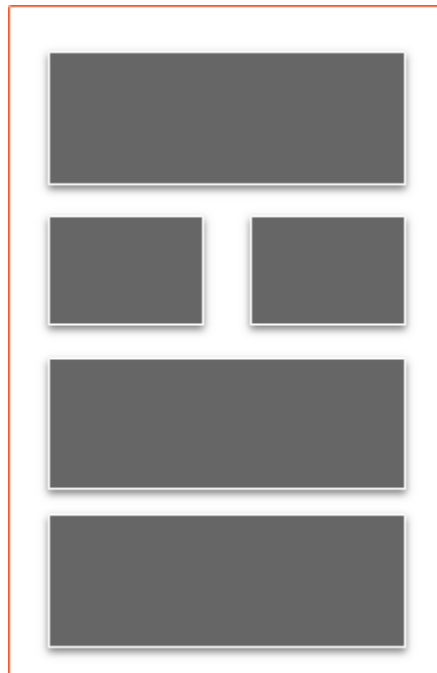


# Lab 4: Android RelativeLayout

## Introduction

Relative Layout Specify the positions of views relative to other views.



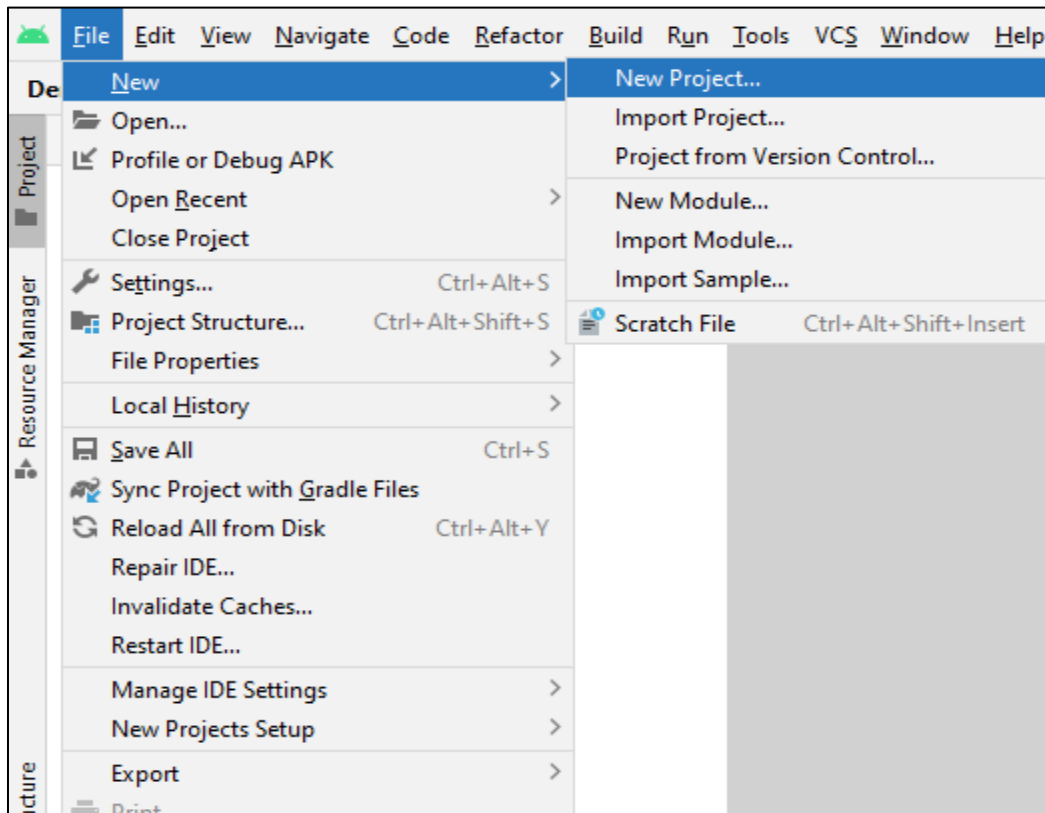
## Relative Layout Attributes

Attribute	Description
id	Used to uniquely specify
gravity	Used to specify child position
ignoreGravity	Used to specify which need to be ignored for gravity

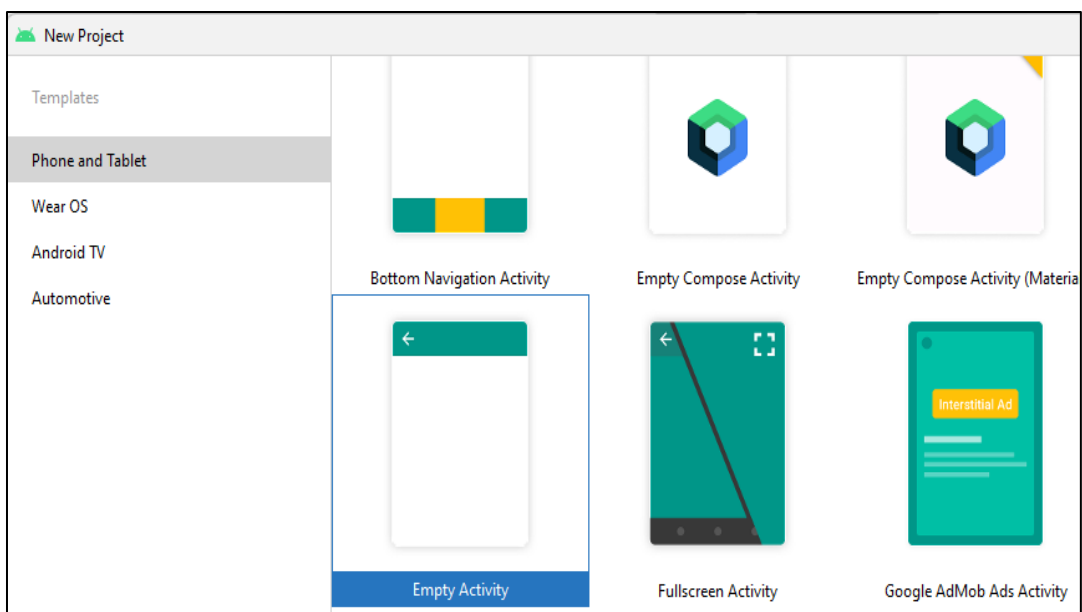
## Let's get Started

You'll be guided through easy stages in this exercise to design your own Android application utilising Relative Layout.

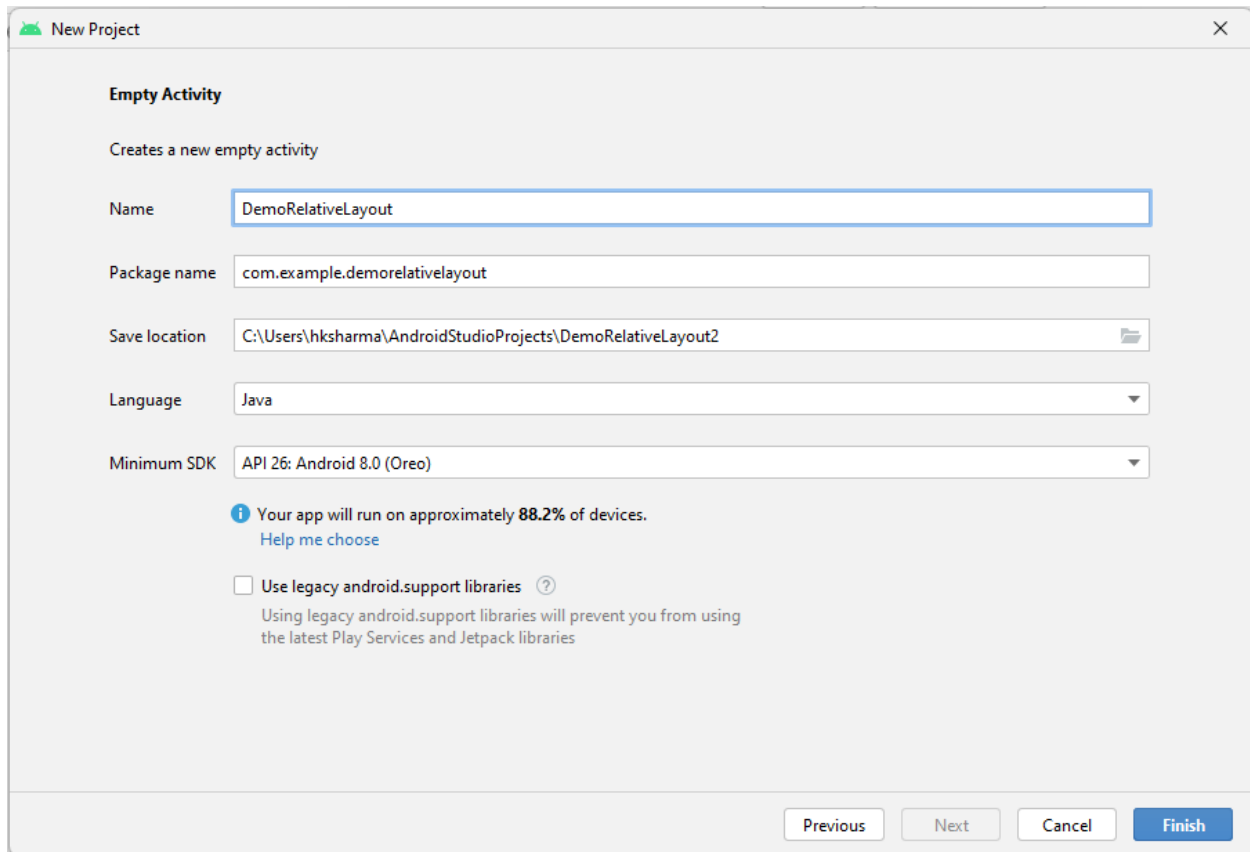
**Step 1: Create a New Project in Android Studio as shown below**



**Step 2: Select Empty Activity as shown below**



### Step 3: Provide a Project Name as shown below



**New Project**

Empty Activity

Creates a new empty activity

Name: DemoRelativeLayout

Package name: com.example.demorelativelayout

Save location: C:\Users\hksharma\AndroidStudioProjects\DemoRelativeLayout2

Language: Java

Minimum SDK: API 26: Android 8.0 (Oreo)

*i* Your app will run on approximately 88.2% of devices.  
[Help me choose](#)

☐ Use legacy android.support libraries *?*  
Using legacy android.support libraries will prevent you from using the latest Play Services and Jetpack libraries

Previous Next Cancel Finish

### Step 4: Update MainActivity.java as per the code given below

```
package com.example.demorelativelayout;
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);
    }
}
```

## Step 5: Update activity\_main.xml for Relative Layout as per the code given below

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent"
    android:paddingLeft="16dp"
    android:paddingRight="16dp" >

    <EditText
        android:id="@+id/name"
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:hint="@string/name" />

    <LinearLayout
        android:orientation="vertical"
        android:layout_width="fill_parent"
        android:layout_height="fill_parent"
        android:layout_alignParentStart="true"
        android:layout_below="@+id/name">

        <Button
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Button 1"
            android:id="@+id/button" />

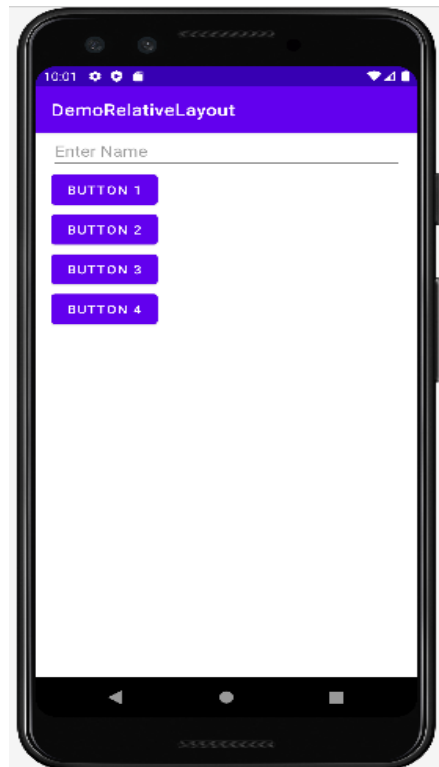
        <Button
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Button 2"
            android:id="@+id/button2" />

        <Button
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Button 3"
            android:id="@+id/button3" />

        <Button
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Button 4"
            android:id="@+id/button4" />

    </LinearLayout>
</RelativeLayout>
```

**Step 6: Check Output on Android Emulator and it should look like as given below**



**Voila!!** We have successfully completed this lab.