

# 1. How permission in android is defined and checked Explain with Gallery and Camera Permission.

## Xml File

```
<LinearLayout
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:gravity="center"
tools:context=".MainActivity">

    <Button
        android:id="@+id/btn1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="camera permission"

    />

    <Button
        android:id="@+id/btn2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Gallery Permission"
    />

</LinearLayout>
```

## Kotlin File

```
package com.example.ca3

import android.content.Intent
import androidx.appcompat.app.AppCompatActivity
import android.os.Bundle import
android.provider.MediaStore import
android.widget.Button import
android.widget.Toast
import
androidx.activity.result.contract.ActivityResultContracts
import androidx.constraintlayout.widget.ConstraintLayout import
com.google.android.material.snackbar.Snackbar

class MainActivity : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?)
    {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)          val btn1
        = findViewById<Button>(R.id.btn1)              val btn2 =
        findViewById<Button>(R.id.btn2)

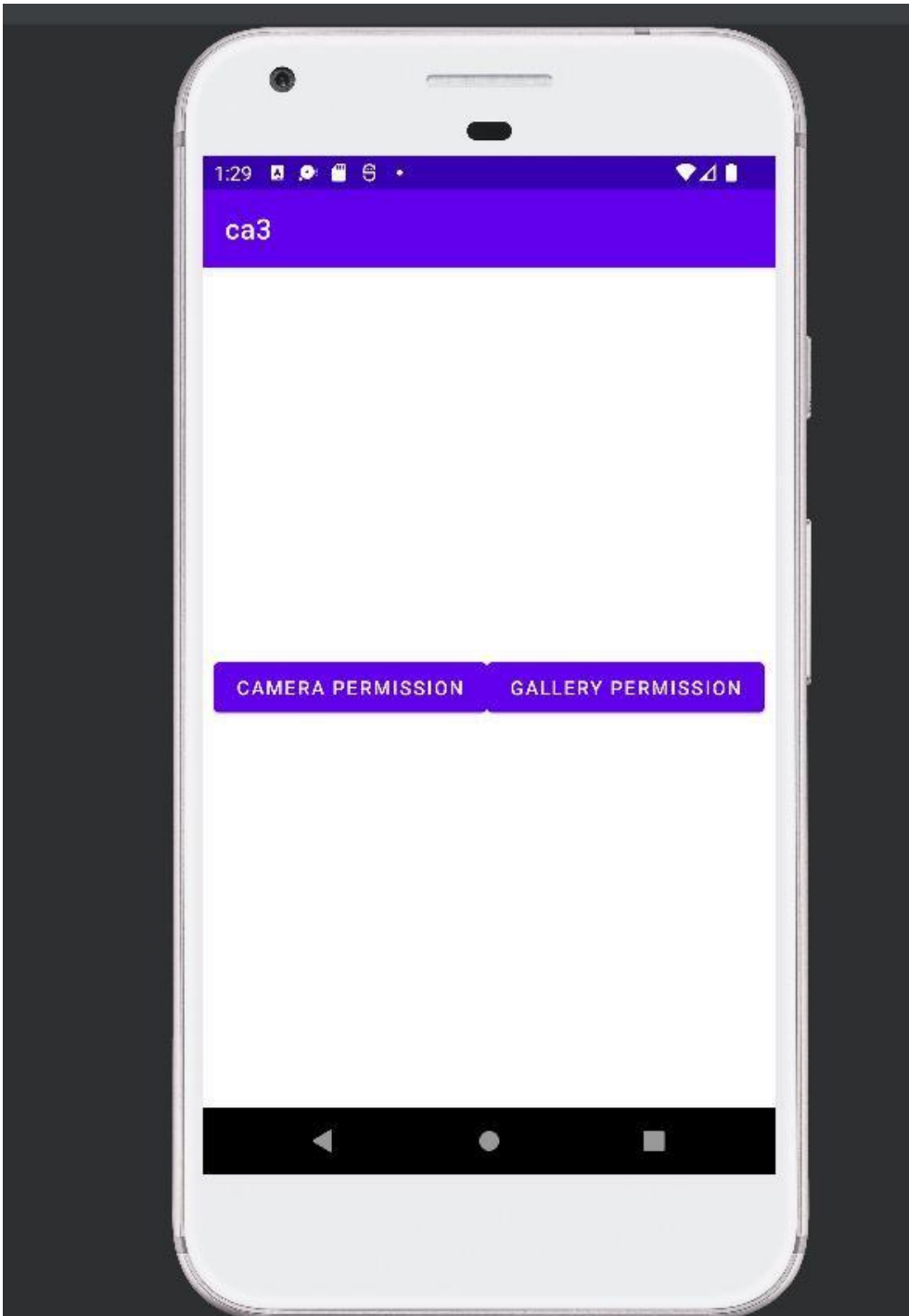
        val requestCam =
        registerForActivityResult(ActivityResultContracts.RequestPermission()){
        if(it){
            Toast.makeText(this,"Permission Granted",
            Toast.LENGTH_LONG).show()
            val int_cmr =
            Intent(MediaStore.ACTION_IMAGE_CAPTURE)
            startActivity(int_cmr)                      finish()

        }
        else{
            Toast.makeText(this,"Permission is denied",
            Toast.LENGTH_LONG).show()
        }
    }

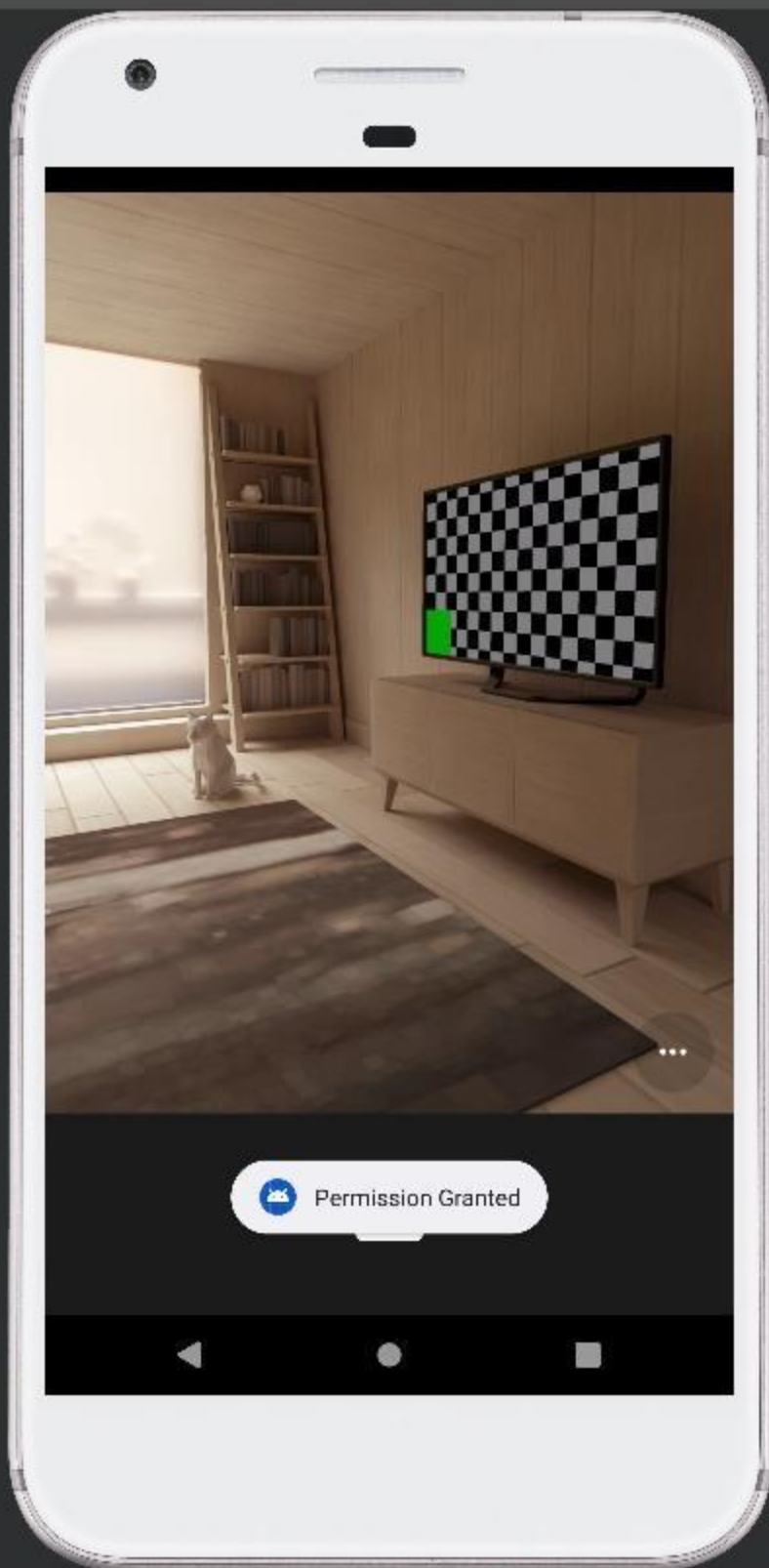
    val requestgall =
    registerForActivityResult(ActivityResultContracts.RequestPermission()){
    if(it){
        Toast.makeText(this,"Gallery Permissions are
        Granted",Toast.LENGTH_LONG).show()
        val gal_int =
        Intent(Intent.ACTION_VIEW)
        gal_int.setType("image/*")
        startActivity(gal_int)                          finish()

    }
    else{
        Toast.makeText(this,"Gallery Permissions are
        Granted",Toast.LENGTH_LONG).show()
    }
}
```

```
        }  
    }  
    btn1.setOnClickListener {  
requestCam.launch(android.Manifest.permission.CAMERA)  
    }  
    btn2.setOnClickListener {  
requestgall.launch(android.Manifest.permission.READ_EXTERNAL_STORAGE)  
    }  
}  
}
```



Hold Shift to control camera

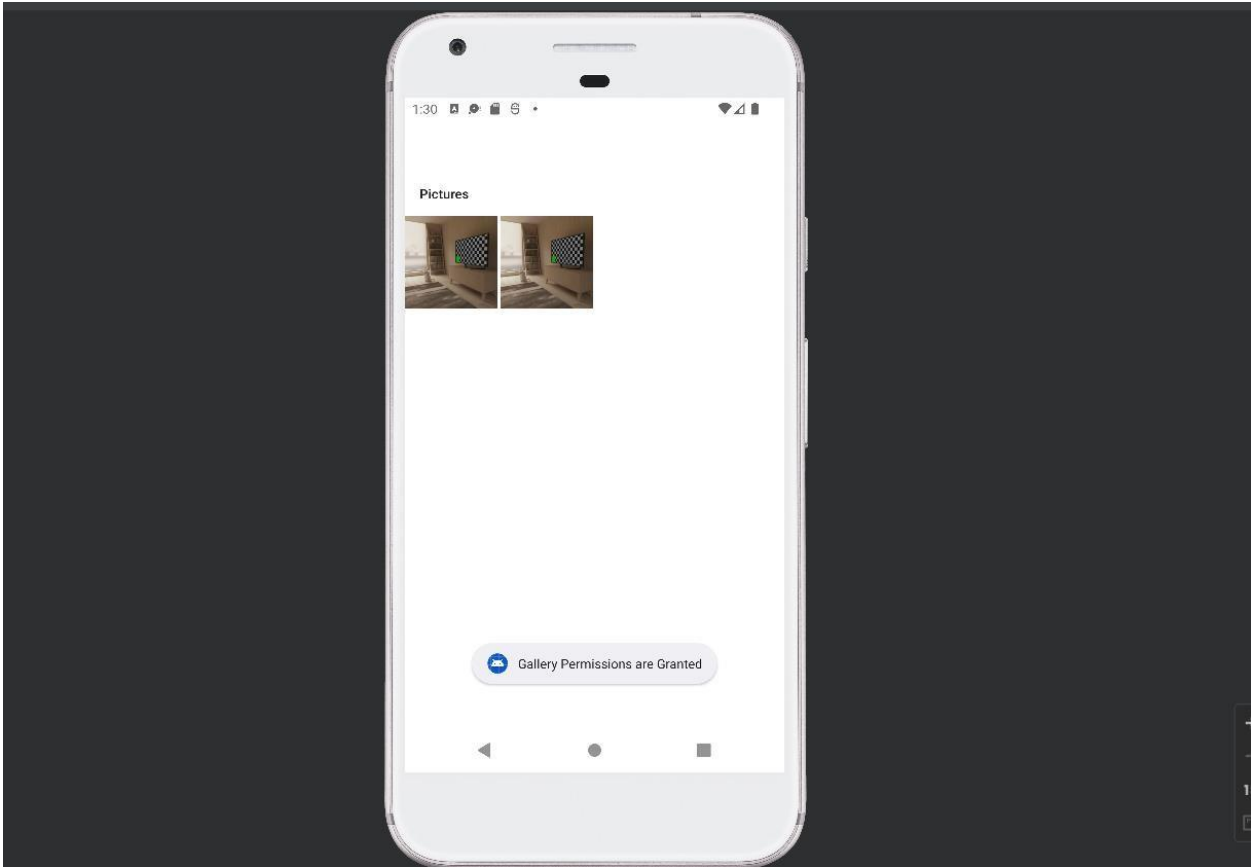


+

-

1:1

📷



2. what is Alert Dialog Box in android. Explain with the help of Suitable Examples.

Xml File:

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout 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:gravity="center"
    android:layout_gravity="center"
    android:orientation="vertical"
    tools:context=".MainActivity">

    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:id="@+id/btn1"
        android:textSize="20sp"
        android:text="Alert Dialog"/>

</LinearLayout>
```

## Kotlin File:

```
package com.example.ca32

import androidx.appcompat.app.AppCompatActivity
import android.os.Bundle
import android.widget.Button
import android.widget.Toast
import androidx.appcompat.app.AlertDialog

class MainActivity : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)

        val btn1 = findViewById<Button>(R.id.btn1)

        btn1.setOnClickListener {
            val builder = AlertDialog.Builder(this)

            builder.setTitle("Alert")
                .setMessage("Do you want to close it")

                .setIcon(android.R.drawable.ic_dialog_alert)
                .setPositiveButton("ok") {i, which->
                    Toast.makeText(this,"ok was clicked",
Toast.LENGTH_LONG).show()

                }

                .setNegativeButton("Cancel") {i, which->
                    Toast.makeText(this,"Cancel was clicked",
Toast.LENGTH_LONG).show()

                }

                .setNeutralButton("NoNe") {
                    i, which-> Toast.makeText(this,"None was clicked",
Toast.LENGTH_LONG).show()

                }

                .show()

        }
    }
}
```



