

Experiment 1.4

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Aim

Click on activity and open many intents.

Objective

Create an application having three components which changes view to different intents by clicking on them.

Theory

Android Intent is the message that is passed between components such as activities, content providers, broadcast receivers, services etc.

It is generally used with startActivity() method to invoke activity, broadcast receivers etc.

The dictionary meaning of intent is *intention or purpose*. So, it can be described as the intention to do action.

The LabeledIntent is the subclass of android.content.Intent class.

Intents facilitate communication between different components in several ways.

The intent is used to launch an activity, start the services, broadcast receivers, display a web page, dial a phone call, send messages from one activity to another activity, and so on.

There are two intents available in android as Implicit Intents and Explicit Intents.

Code

MainActivity.kt

```
package com.example.intents
import android.content.Intent
import android.net.Uri
import androidx.appcompat.app.AppCompatActivity
import android.os.Bundle
import android.provider.MediaStore
import android.widget.Button
import androidx.cardview.widget.CardView
class MainActivity : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity main)
        val btnIntent = findViewById<Button>(R.id.button)
        btnIntent.setOnClickListener{
            //open new activity
            intent = Intent(applicationContext, SecondActivity::class.java)
            startActivity(intent)
        }
        val webButton = findViewById<CardView>(R.id.cardWeb)
        val cameraButton = findViewById<CardView>(R.id.cardCamera)
        webButton.setOnClickListener {
            val intent = Intent(Intent.ACTION VIEW)
            intent.data =
Uri.parse("https://www.linkedin.com/in/adityanarayansharma/")
            startActivity(intent)
        cameraButton.setOnClickListener {
            val intent = Intent (MediaStore.ACTION IMAGE CAPTURE)
            startActivity(intent)
        }
    }
SecondActivity.kt
package com.example.intents
import androidx.appcompat.app.AppCompatActivity
import android.os.Bundle
```

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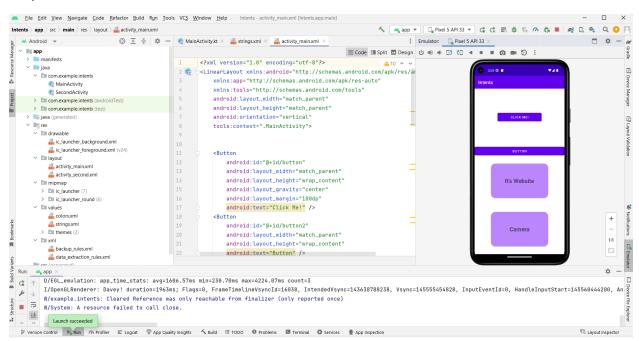
```
class SecondActivity : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity second)
ActivityMain.xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    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:orientation="vertical"
    tools:context=".MainActivity">
    <Button
        android:id="@+id/button"
        android:layout width="match parent"
        android:layout height="wrap content"
        android:layout gravity="center"
        android:layout margin="100dp"
        android:text="Click Me!" />
    <But.ton
        android:id="@+id/button2"
        android:layout width="match parent"
        android:layout height="wrap content"
        android:text="Button" />
    <androidx.cardview.widget.CardView</pre>
        android:id="@+id/cardWeb"
        android:layout width="250dp"
        android:layout height="150dp"
        android:backgroundTint="@color/purple 200"
        android:layout_gravity="center"
        android:layout margin="30dp"
        app:cardCornerRadius="20dp">
        <TextView
            android:layout width="wrap content"
            android:layout height="wrap content"
            android:layout gravity="center"
            android:text="It's Website"
            android:textStyle="bold"
            android:textSize="25dp"
            />
    </androidx.cardview.widget.CardView>
    <androidx.cardview.widget.CardView</pre>
        android:id="@+id/cardCamera"
```

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</androidx.cardview.widget.CardView>

</LinearLayout>

Output





Screen 2