Experiment-2.1

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Aim:

Create an Android app that uses Intent and one button to create a page and passes values from one activity to another.

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

```kotlin
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?) {
```

```kotlin
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

```kotlin
package com.example.intents

import androidx.appcompat.app.AppCompatActivity import
android.os.Bundle
class SecondActivity : AppCompatActivity() {        override fun
onCreate(savedInstanceState: Bundle?) {
super.onCreate(savedInstanceState)
setContentView(R.layout.activity_second)
    }
}
```

ActivityMain.xml

```xml
<?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: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!" />
    <Button
        android:id="@+id/button2"
android:layout_width="match_parent"
android:layout_height="wrap_content"        android:text="Button"
/>
```

```xml
<androidx.cardview.widget.CardView
    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          android:id="@+id/cardCamera"
        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="Camera" android:textStyle="bold"
            android:textSize="25dp"
            />

    </androidx.cardview.widget.CardView> </LinearLayout>
```
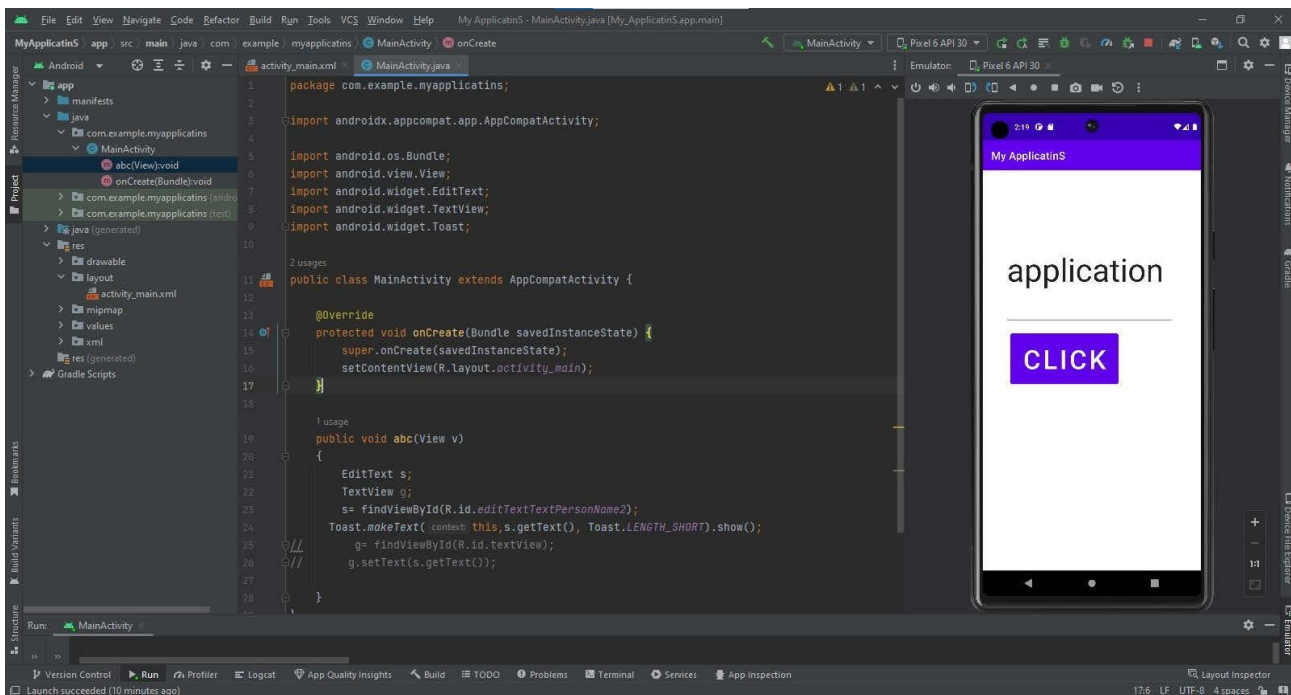
Output