



## Experiment-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
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"
    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" />

    <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>

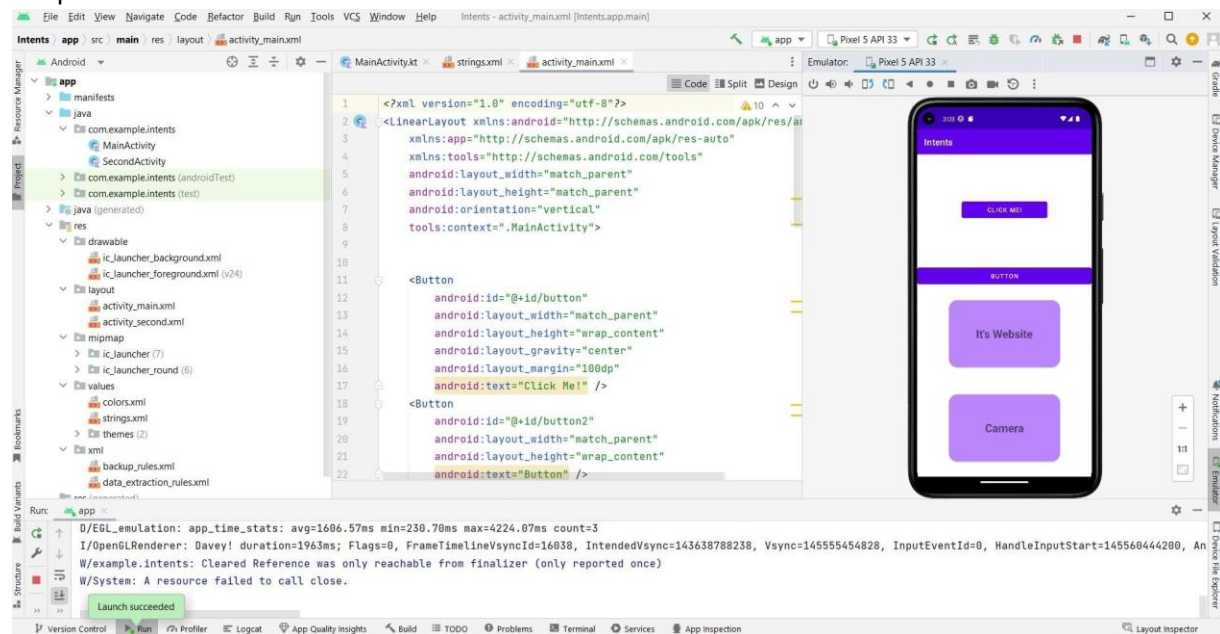
```

```

</LinearLayout>

```

## Output





# DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Discover

Intents

Intents

Screen 2

CLICK ME!

BUTTON

It's Website

Camera

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