

[2CEIT5PE5: MOBILE APPLICATION DEVELOPMENT]

Practical: 5

AIM - What is Intent? Write down types of Intent and types of Intent Action. Create an application which demonstrates implicit Intent for following features.

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activity_main.xml :

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
    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"
    tools:context=".MainActivity">

    <TextView
        android:id="@+id/textView2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Web Url:"
        app:layout_constraintBaseline_toBaselineOf="@+id/editTextUrl"
        app:layout_constraintEnd_toStartOf="@+id/editTextUrl"
        app:layout_constraintHorizontal_bias="0.5"
        app:layout_constraintStart_toStartOf="parent" />

    <EditText
        android:id="@+id/editTextUrl"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="44dp"
        android:layout_marginTop="104dp"
        android:ems="10"
        android:inputType="text"
        android:text="https://www.ganpatuniversity.ac.in"
        app:layout_constraintEnd_toStartOf="@+id/Browserbtn"
        app:layout_constraintHorizontal_bias="0.5"
        app:layout_constraintStart_toEndOf="@+id/textView2"
        app:layout_constraintTop_toTopOf="parent" />

    <Button
        android:id="@+id/Browserbtn"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Browse"
        app:layout_constraintBaseline_toBaselineOf="@+id/editTextUrl"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.5"
        app:layout_constraintStart_toEndOf="@+id/editTextUrl" />

    <TextView
        android:id="@+id/textView3"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Contact No.:"
```

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```
app:layout_constraintBaseline_toBaselineOf="@+id/editTextNumber"
app:layout_constraintEnd_toStartOf="@+id/editTextNumber"
app:layout_constraintHorizontal_bias="0.5"
app:layout_constraintStart_toStartOf="parent" />
```

```
<EditText
    android:id="@+id/editTextNumber"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="196dp"
    android:ems="10"
    android:inputType="text"
    android:text="+911234567890"
    app:layout_constraintEnd_toStartOf="@+id/Callbtn"
    app:layout_constraintHorizontal_bias="0.5"
    app:layout_constraintStart_toEndOf="@+id/textView3"
    app:layout_constraintTop_toTopOf="parent" />
```

```
<Button
    android:id="@+id/Callbtn"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Call"
    app:layout_constraintBaseline_toBaselineOf="@+id/editTextNumber"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.5"
    app:layout_constraintStart_toEndOf="@+id/editTextNumber" />
```

```
<TextView
    android:id="@+id/textView4"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="16dp"
    android:text="Call Log:"
    app:layout_constraintBaseline_toBaselineOf="@+id/CallLogbtn"
    app:layout_constraintStart_toStartOf="parent" />
```

```
<TextView
    android:id="@+id/textView5"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="16dp"
    android:text="Gallery:"
    app:layout_constraintBaseline_toBaselineOf="@+id/Gallerybtn"
    app:layout_constraintStart_toStartOf="parent" />
```

```
<TextView
    android:id="@+id/textView6"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
```

```
android:layout_marginStart="8dp"
android:text="Camera:"
app:layout_constraintBaseline_toBaselineOf="@+id/Camerabtn"
app:layout_constraintStart_toStartOf="parent" />
```

```
<TextView
    android:id="@+id/textView7"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="16dp"
    android:text="Alarm:"
    app:layout_constraintBaseline_toBaselineOf="@+id/Alarmbtn"
    app:layout_constraintStart_toStartOf="parent" />
```

```
<Button
    android:id="@+id/CallLogbtn"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="280dp"
    android:layout_marginEnd="4dp"
    android:text="Call Log"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
```

```
<Button
    android:id="@+id/Gallerybtn"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="344dp"
    android:layout_marginEnd="11dp"
    android:text="Gallery"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
```

```
<Button
    android:id="@+id/Camerabtn"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="417dp"
    android:layout_marginEnd="6dp"
    android:text="Camera"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
```

```
<Button
    android:id="@+id/Alarmbtn"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="482dp"
    android:layout_marginEnd="14dp"
```

```
android:text="Alarm"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintTop_toTopOf="parent" />
```

```
</androidx.constraintlayout.widget.ConstraintLayout>
```

MainActivity.kt :

```
package com.example.mad_practical_5_21012021003
```

```
import android.content.Intent
import android.net.Uri
import androidx.appcompat.app.AppCompatActivity
import android.os.Bundle
import android.provider.AlarmClock
import android.provider.CallLog
import android.provider.MediaStore
import android.widget.Button
import android.widget.EditText
```

```
class MainActivity : AppCompatActivity() {
```

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

```
        val buttonBrowse: Button = findViewById(R.id.Browserbtn)
        val editUrl: EditText = findViewById(R.id.editTextUrl)
        val buttoncall: Button = findViewById(R.id.Callbtn)
        val editcall: EditText = findViewById(R.id.editTextNumber)
        val buttonCallLog: Button = findViewById(R.id.CallLogbtn)
        val buttonGallery: Button = findViewById(R.id.Gallerybtn)
        val buttonCamera: Button = findViewById(R.id.Camerabtn)
        val buttonAlarm: Button = findViewById(R.id.Alarmbtn)
```

```
        buttonBrowse.setOnClickListener { openBrowser(editUrl.text.toString()) }
        buttoncall.setOnClickListener { openCall(editcall.text.toString()) }
        buttonCallLog.setOnClickListener { openCallLog() }
        buttonGallery.setOnClickListener { openGallery() }
        buttonCamera.setOnClickListener { openCamera() }
        buttonAlarm.setOnClickListener { openAlarm() }
    }
```

```
    fun openBrowser(URL: String ){
        Intent(Intent.ACTION_VIEW, Uri.parse(URL)).also { startActivity(it) }
```

```
    }
    fun openCall(number: String ){
        Intent(Intent.ACTION_DIAL).setData(Uri.parse("tel:$number")).also { startActivity(it) }
```

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```
}  
  
}  
  
fun openCallLog(){  
    Intent(Intent.ACTION_VIEW).setType(CallLog.Calls.CONTENT_TYPE).also {  
startActivity(it) }  
}  
fun openGallery(){  
    Intent(Intent.ACTION_VIEW).setType("image/*").also { startActivity(it) }  
}  
fun openCamera(){  
    Intent(MediaStore.ACTION_IMAGE_CAPTURE).also { startActivity(it) }  
}  
fun openAlarm(){  
    Intent(AlarmClock.ACTION_SHOW_ALARMS).also { startActivity(it) }  
}  
}
```

