# 2CEIT5PE5: MOBILE APPLICATION DEVELOPMENT

# Practical: 4

**AIM-**What is Intent? Write down types of Intent and types of Intent Action. Create anpplication which demonstrates **implicit Intent** for following features and also create different activities and demonstrate **explicit Intent**. Use parent theme Theme.Material3.Dark.NoActionBar for Dark theme and Theme.Material3.Light.NoActionBar for Light Theme

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- 1. Make call to specific number
- 2. Open specific URL
- 3. Pick up Contact from Existing contact list
- 4. Open Call Log
- 5. Open Gallery
- 6. Set Alarm
- 7. Open Camera

# **Practical-4**

# MainActivity.kt:

```
import android.content.Intent
import android.net.Uri
import android.net.Uri
import android.s.appcompat.app.AppCompatActivity
import android.os.Bundle
import android.provider.AlarmClock
import android.provider.CallLog
import android.provider.ContactsContract
import android.provider.MediaStore
import android.widget.Button
import com.google.android.material.textfield.TextInputEditText

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

    var buttonBrowse=findViewById<Button>(R.id.button_browse)
    buttonBrowse.setOnClickListener{
        val url = findViewById<TextInputEditText>(R.id.input_browse).text
        var url_text = url.toString()
        Intent(Intent.Action_VIEW).setData(Uri.parse(url_text)).apply {
    startActivity(this) }
    }

    var buttonCall = findViewById<Button>(R.id.button_call)
    buttonCall.setOnClickListener{
        var number = findViewById<Button>(R.id.button_call).text
```

```
var number_text = "tel: $number"
Intent(Intent.ACTION_DIAL).setData(Uri.parse(number_text)).apply {
startActivity(this) }

var buttonContact = findViewById<Button>(R.id.button_contact)
buttonContact.setOnClickListener{

Intent(Intent.ACTION_VIEW).setType(ContactsContract.Contacts.CONTENT_TYPE).apply {
startActivity(this) }

var buttonCallLog = findViewById<Button>(R.id.button_calllog)
buttonCallLog.setOnClickListener{
    Intent(Intent.ACTION_VIEW).setType(CallLog.Calls.CONTENT_TYPE).apply {
startActivity(this) }

var buttonGallery = findViewById<Button>(R.id.button_gallery)
buttonGallery.setOnClickListener{
    Intent(Intent.ACTION_VIEW).setType("image/*").apply {
startActivity(this) }

var buttonCamera = findViewById<Button>(R.id.button_camera)
buttonCamera.setOnClickListener{
    Intent(MediaStore.ACTION_IMAGE_CAPTURE).apply { startActivity(this) }
}

var buttonAlarm = findViewById<Button>(R.id.button_alarm)
buttonAlarm.setOnClickListener{
    Intent(AlarmClock.ACTION_SHOW_ALARMS).apply { startActivity(this) }}
}
```

#### 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/tools"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <com.google.android.material.textfield.TextInputLayout
        android:id="@+id/text_browse"
        android:layout_width="230sp"
        android:layout_height="wrap_content"
        style="@style/Widget.MaterialComponents.TextInputLayout.OutlinedBox"
        app:boxStrokeColor="@color/black"
        android:layout_marginTop="50sp"
        app:layout_constraintEnd_toStartOf="@+id/button_browse"</pre>
```

```
app:layout_constraintStart_toEndOf="@id/button browse"
```

```
android:id="@+id/text_calllog"
app:layout_constraintEnd toStartOf="@+id/button calllog"
app:layout_constraintEnd toStartOf="@+id/button gallery"
app:layout_constraintTop toBottomOf="@+id/text gallery">
```

```
android:id="@+id/button browse"
android:id="@+id/button call"
app:layout_constraintEnd toEndOf="parent"
android:id="@+id/button contact"
app:cornerRadius="20sp"
```

```
android:id="@+id/button gallery"
app:layout_constraintTop toBottomOf="@id/button gallery" />
```

Output:-







