

EX 12

ANDROID MANIFEST

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools">

    <queries>
        <package android:name="com.google.android.gm" />
    </queries>

    <application
        android:allowBackup="true"
        android:dataExtractionRules="@xml/data_extraction_rules"
        android:fullBackupContent="@xml/backup_rules"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/Theme.Ex12"
        tools:targetApi="31">
        <activity
            android:name=".MainActivity"
            android:exported="true">
            <intent-filter>
                <action android:name="android.intent.action.MAIN"/>

                <category android:name="android.intent.category.LAUNCHER"/>
            </intent-filter>
        </activity>
    </application>

</manifest>
```

ACTIVITY MAIN

```
<?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"
    android:padding="10dp"
    tools:context=".MainActivity">

    <!--EditText: Input the recipient-->
    <EditText
        android:id="@+id/recipientEt"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Recipient email(s)"
        android:inputType="textEmailAddress"
        android:padding="10dp"
    />

    <!--EditText: Input the subject of email-->
    <EditText
        android:id="@+id/subjectEt"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Subject"
    />
```

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        android:layout_marginTop="2dp"
        android:layout_marginBottom="2dp"
        android:inputType="text|textCapSentences"
        android:padding="10dp"
    />

    <!--EditText: Input the message-->
    <EditText
        android:id="@+id/messageEt"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:gravity="start"
        android:hint="Enter message here..."
        android:inputType="text|textCapSentences"
        android:minHeight="150dp"
        android:padding="10dp"
    />

    <!--Button: Launch existing email clients to send email-->
    <Button
        android:id="@+id/sendEmailBtn"
        style="@style/Base.Widget.AppCompat.Button.Colored"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_gravity="end"
        android:text="send Email" />

</LinearLayout>

```

MAIN ACTIVITY

```

package com.example.ex12

import android.content.Intent
import android.content.pm.PackageManager
import android.os.Bundle
import android.widget.Button
import android.widget.EditText
import androidx.appcompat.app.AppCompatActivity

class MainActivity : AppCompatActivity() {

    //declare views
    private lateinit var mRecipientEt: EditText
    private lateinit var mSubjectEt: EditText
    private lateinit var mMessageEt: EditText
    private lateinit var mSendEmailBtn: Button

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

        //initializing views with activity_main.xml
        mRecipientEt = findViewById(R.id.recipientEt)
        mSubjectEt = findViewById(R.id.subjectEt)
        mMessageEt = findViewById(R.id.messageEt)
        mSendEmailBtn = findViewById(R.id.sendEmailBtn)

        //button click to get input and call sendEmail method
        mSendEmailBtn.setOnClickListener {
            //get input from EditTexts and save in variables
            val recipient = mRecipientEt.text.toString().trim()
            val subject = mSubjectEt.text.toString().trim()
            val message = mMessageEt.text.toString().trim()

```

```

        //method call for email intent with these inputs as parameters
        sendEmail(recipient, subject, message)
    }
}

private fun sendEmail(recipient: String, subject: String, message: String) {
    //call email share method
    val gmailPackage = "com.google.android.gm"
    // return true if gmail is installed
    val isGmailInstalled = isAppInstalled(gmailPackage)

    /*ACTION_SEND action to launch an email client installed on your Android
device.*/
    val intent = Intent(Intent.ACTION_SEND)
    // put recipient email in intent
    /* recipient is put as array because you may wanna send email to multiple
emails
    so enter comma(,) separated emails, it will be stored in array*/
    intent.putExtra(Intent.EXTRA_EMAIL, arrayOf(recipient))
    //put subject of email
    intent.putExtra(Intent.EXTRA_SUBJECT, subject)
    //put message of email in intent
    intent.putExtra(Intent.EXTRA_TEXT, message)
    if (isGmailInstalled) {
        intent.type = "text/html"
        intent.setPackage(gmailPackage)
        startActivity(intent)
    } else {
        // allow user to choose a different app to send email with
        intent.type = "message/rfc822"
        startActivity(Intent.createChooser(intent, "choose an email client"))
    }
}

private fun isAppInstalled(packageName: String): Boolean {
    return try {
        packageManager.getApplicationInfo(packageName, 0)
        true
    } catch (e: PackageManager.NameNotFoundException) {
        false
    }
}
}

```