

Practical No 30

Q1. Why it become necessary to have inbuilt email module in mobile application.

To send an email from your application, you don't have to implement an email client from the beginning, but you can use an existing one like the default Email app provided from Android, Gmail, Outlook, K-9 Mail etc. For this purpose, we need to write an Activity that launches an email client, using an implicit Intent with the right action and data.

Q2. List extra fields that can be used in an application to send emails

Sr.No.	Extra Data & Description
1	EXTRA_BCC A String[] holding e-mail addresses that should be blind carbon copied.
2	EXTRA_CC A String[] holding e-mail addresses that should be carbon copied.
3	EXTRA_EMAIL A String[] holding e-mail addresses that should be delivered to.
4	EXTRA_HTML_TEXT A constant String that is associated with the Intent, used with ACTION_SEND to supply an alternative to EXTRA_TEXT as HTML formatted text.
5	EXTRA_SUBJECT A constant string holding the desired subject line of a message.
6	EXTRA_TEXT A constant CharSequence that is associated with the Intent, used with ACTION_SEND to supply the literal data to be sent.

7

EXTRA_TITLE

A CharSequence dialog title to provide to the user when used with a ACTION_CHOOSER.

Q3. Write a program to send email

activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:paddingLeft="20dp"
    android:paddingRight="20dp"
    android:orientation="vertical" >
    <EditText
        android:id="@+id/txtTo"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="To"/>
    <EditText
        android:id="@+id/txtSub"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Subject"/>
    <EditText
        android:id="@+id/txtMsg"
        android:layout_width="match_parent"
        android:layout_height="0dp"
        android:layout_weight="1"
        android:gravity="top"
        android:hint="Message"/>
    <Button
        android:layout_width="100dp"
        android:layout_height="wrap_content"
        android:layout_gravity="right"
        android:text="Send"
        android:id="@+id/btnSend"/>
</LinearLayout>
```

MainActivity.java

```
package com.tutlane.sendmailexample;
import android.content.Intent;
```

```

import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;

public class MainActivity extends AppCompatActivity {

    private EditText eTo;
    private EditText eSubject;
    private EditText eMsg;
    private Button btn;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        eTo = (EditText)findViewById(R.id.txtTo);
        eSubject = (EditText)findViewById(R.id.txtSub);
        eMsg = (EditText)findViewById(R.id.txtMsg);
        btn = (Button)findViewById(R.id.btnSend);
        btn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent it = new Intent(Intent.ACTION_SEND);

it.putExtra(Intent.EXTRA_EMAIL, new String[]{eTo.getText().toString()});
;

it.putExtra(Intent.EXTRA_SUBJECT,eSubject.getText().toString());
        it.putExtra(Intent.EXTRA_TEXT,eMsg.getText());
        it.setType("message/rfc822");
        startActivity(Intent.createChooser(it,"Choose Mail
App"));
            }
        });
    }
}

```

AndroidManifest.xml

```

<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android" package="com.tutlane.sendmailexample">
    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportRtl="true"
        android:theme="@style/AppTheme">

```

```

<activity android:name=".MainActivity">
    <intent-filter>
        <action android:name="android.intent.action.MAIN" />

<category android:name="android.intent.category.LAUNCHER" />
        <action android:name="android.intent.action.SEND"/>

<category android:name="android.intent.category.DEFAULT"/>
        <data android:mimeType="message/rfc822"/>
    </intent-filter>
</activity>
</application>
</manifest>

```

