Practical Related Questions

1.Why it becomes necessary to have inbuilt email module in mobile applications.

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. In this example, we are going to send an email from our app by using an Intent object that launches existing email clients.

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

Intent Object - Action to send Email. You will use ACTION_SEND action to launch an email client installed on your Android device. ...

Intent Object - Data/Type to send Email. ...

Intent Object - Extra to send Email. ...

Exercise

MainActivity.java

```java
package com.example.practical30;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;

public class MainActivity extends AppCompatActivity {
    Button send;
    EditText email,sub,msg;
```

```java
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        email=(EditText) findViewById(R.id.email);
        sub=(EditText) findViewById(R.id.sub);

        msg=(EditText) findViewById(R.id.msg);
        send=(Button) findViewById(R.id.send);

        send.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent intent=new Intent(Intent.ACTION_SEND);
                intent.putExtra(Intent.EXTRA_EMAIL,email.getText().toString());
                intent.putExtra(Intent.EXTRA_SUBJECT,sub.getText().toString());
                intent.putExtra(Intent.EXTRA_TEXT,msg.getText().toString());
                intent.setType("message/rfc822");

                startActivity(Intent.createChooser(intent,"Choose an Email client
"));

            }
        });

    }
}
```

Activity_main.xml

```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"
    tools:context=".MainActivity"
    android:orientation="vertical"
    android:gravity="center">

    <TextView
        android:layout_width="wrap_content"
```

```xml
            android:layout_height="wrap_content"
            android:text="Send Email"
            android:textSize="30dp"
            android:layout_marginBottom="20dp"
        />
    <EditText
            android:id="@+id/email"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:hint="email address"
            android:width="200dp"/>

    <EditText
            android:id="@+id/sub"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:hint="Enter subject"
            android:width="200dp"/>

    <EditText
            android:id="@+id/msg"
            android:layout_width="wrap_content"
            android:layout_height="82dp"
            android:width="200dp"
            android:ems="10"
            android:hint="Message"
            android:inputType="textMultiLine" />

    <Button
            android:id="@+id/send"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Send"/>



</LinearLayout>
```