Ex. No. 11	Develop a mobile application to send an email.
Date:	

Aim:

To develop an Android Application to send an Email.

Procedure:

Creating a New project:

- Open Android Studio and then click on **File -> New -> New project**.
- Then type the Application name as **"exno11"** and click Next.
- Then **select the Minimum SDK** as shown below and click Next.
- Then **select the Empty Activity** and click Next.
- Finally click **Finish**.
- It will take some time to build and load the project.
- After completion it will look as given below.

Designing layout for the Android Application:

- Click on **app -> res -> layout -> activity_main.xml.**
- Now click on Text as shown below.
- Then delete the code which is there and type the code as given below.

Code for 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="odp"

        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>
```

Adding permissions in Manifest for the Android Application:

- Click on **app -> manifests -> AndroidManifest.xml.**
- Now include the INTERNET permissions in the AndroidManifest.xml file as shown below.

Code for AndroidManifest.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
  xmlns:tools="http://schemas.android.com/tools"
  package="com.example.exno11" >
  <uses-permission android:name="android.permission.INTERNET" />
  <application
    android:allowBackup="true"
    android:icon="@mipmap/ic_launcher"
    android:label="@string/app_name"
    android:theme="@style/AppTheme"
    tools:ignore="GoogleAppIndexingWarning">

    <activity
      android:name="com.example.exno11.MainActivity"
      android:label="@string/app_name">

      <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>
```

- So now the Permissions are added in the Manifest.

Java Coding for the Android Application:
- Click on **app -> java -> com.example.exno10 -> MainActivity**.
- Then delete the code which is there and type the code as given below.

Code for MainActivity.java:

```java
package com.example.exno11;

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;
import androidx.appcompat.app.AppCompatActivity;
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
```
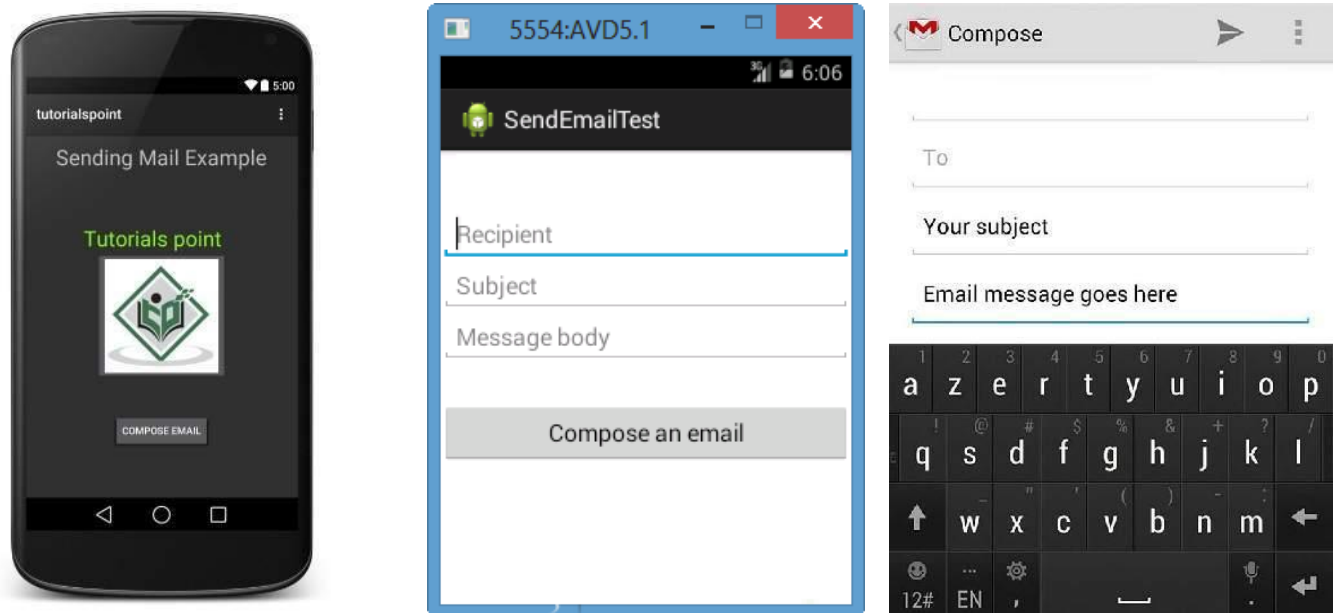
```
        public void onClick(View v) {
            Intent it = new Intent(Intent.ACTION_SEND);
            it.putExtra(Intent.EXTRA_EMAIL, new String[]{eTo.getText().toString()});
            it.putExtra(Intent.EXTRA_SUBJECT,eSubject.getText().toString());
            it.putExtra(Intent.EXTRA_TEXT,eMsg.getText());
            it.setType("message/rfc822");
            startActivity(Intent.createChooser(it,"Choose Mail App"));
        }
    });
  }
}
```

- So now the Coding part is also completed.
- Now run the application to see the output.

Output:

Result:

Thus Android Application for sending an email is developed and executed successfully.