

## **PRACTICAL-8.1**

### **AIM:**

Create an Android Application where user will enter the destination email address, subject and a message. On clicking Send button, it will prompt email client only and email will compose. Also put some logic over EditText field that no one fields are empty otherwise notify with toast

### **PROGRAM CODE:**

- **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/apk/res-auto"
xmlns:tools="http://schemas.android.com/tools"
android:layout_width="match_parent"
android:layout_height="match_parent"
tools:context=".MainActivity">

<TextView
    android:id="@+id/displayName"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="@string/parth_patel_19dcs098"
    android:textColor="#DD2C00"
    android:textSize="16sp"
```

```
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintLeft_toLeftOf="parent"
app:layout_constraintRight_toRightOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.08" />
```

<EditText

```
android:id="@+id/messageTo"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginTop="168dp"
android:ems="10"
android:fontFamily="sans-serif-condensed"
android:hint="@string/name_of_receiver"
android:importantForAutofill="no"
android:inputType="textEmailAddress"
android:minHeight="48dp"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.497"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
tools:ignore="SpeakableTextPresentCheck,TextContrastCheck" />
```

<EditText

```
android:id="@+id/messageSubject"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginTop="60dp"
android:ems="10"
android:fontFamily="sans-serif-condensed"
android:hint="@string/enter_the_subject"
android:importantForAutofill="no"
android:inputType="textPersonName"
android:minHeight="48dp"
```

```
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.497"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/messageTo"
tools:ignore="SpeakableTextPresentCheck,TextContrastCheck" />
```

```
<EditText
android:id="@+id/message"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginTop="52dp"
android:ems="10"
android:hint="@string/enter_your_message"
android:importantForAutofill="no"
android:inputType="textPersonName"
android:minHeight="48dp"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.497"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/messageSubject"
app:layout_constraintVertical_bias="0.074"
tools:ignore="SpeakableTextPresentCheck,TextContrastCheck" />
```

```
<Button
android:id="@+id/button"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="@string/button"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.498"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
```

```
app:layout_constraintVertical_bias="0.838" />
```

```
</androidx.constraintlayout.widget.ConstraintLayout>
```

- **Strings.xml:**

```
<resources>
```

```
<string name="app_name">Email</string>
```

```
<string name="parth_patel_19dcs098">PARTH PATEL-19DCS098</string>
```

```
<string name="message">MESSAGE</string>
```

```
<string name="name_of_receiver">Name of receiver</string>
```

```
<string name="to">TO</string>
```

```
<string name="subject">SUBJECT</string>
```

```
<string name="button">Button</string>
```

```
<string name="enter_the_subject">Enter the subject</string>
```

```
<string name="enter_your_message">Enter your message</string>
```

```
</resources>
```

- **MainActivity.java:**

```
package com.parthnpatel.email;

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;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

    private EditText emailTo,emailSubject,emailMessage;
    private Button button;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        emailTo=findViewById(R.id.messageTo);
        emailSubject=findViewById(R.id.messageSubject);
        emailMessage=findViewById(R.id.message);

        button=findViewById(R.id.button);

        button.setOnClickListener(new View.OnClickListener() {
            @Override
```

```
public void onClick(View view) {

    String to=emailTo.getText().toString();
    String subject=emailSubject.getText().toString();
    String message=emailMessage.getText().toString();

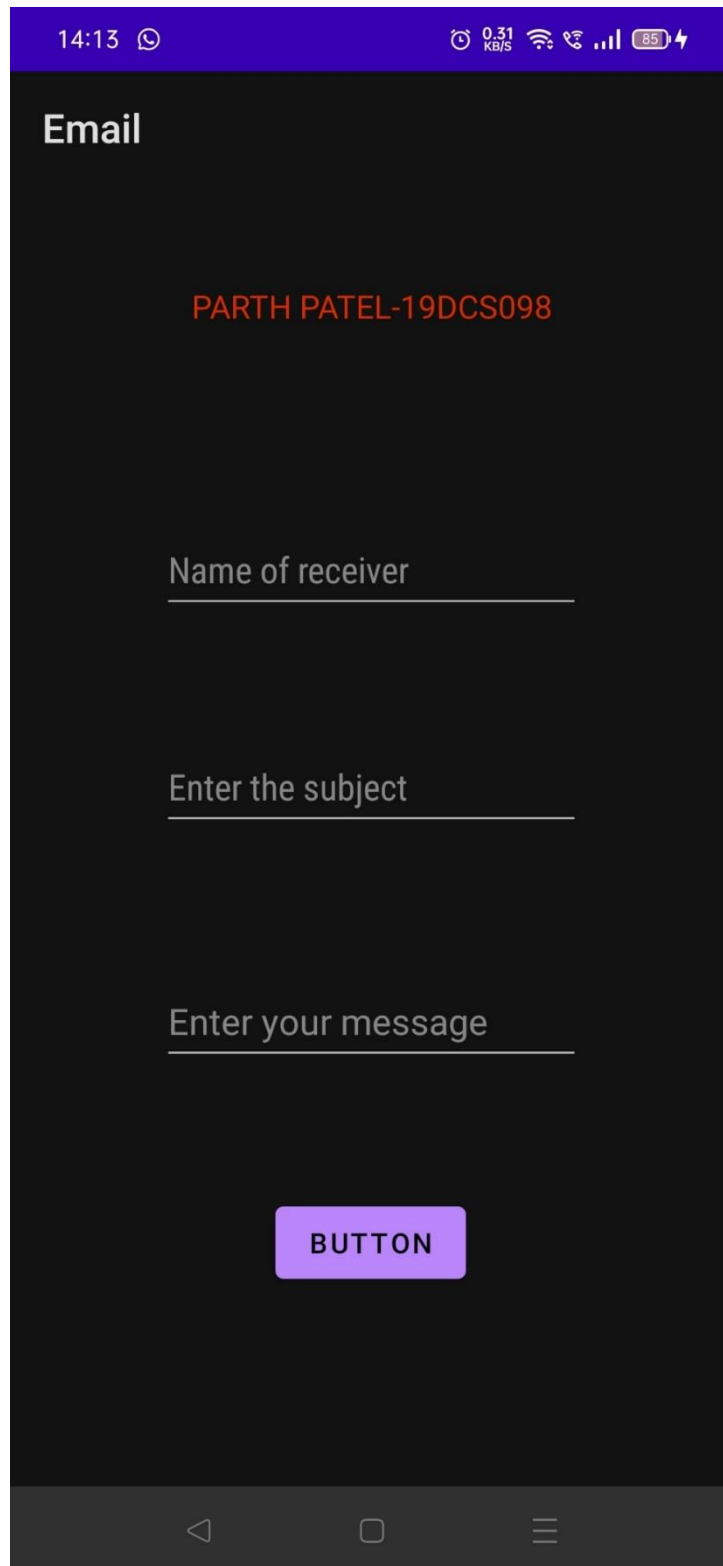
    if(to.equals("") || subject.equals("") || message.equals("")){
        Toast.makeText(getApplicationContext(), "PLEASE FILL THE EMPTY
FIELDS!!", Toast.LENGTH_SHORT).show();
    }
    else {
        Intent intent = new Intent(Intent.ACTION_SEND);

        intent.putExtra(Intent.EXTRA_EMAIL, new String[]{to});
        intent.putExtra(Intent.EXTRA_SUBJECT, subject);
        intent.putExtra(Intent.EXTRA_TEXT, message);

        intent.setType("message/rfc822");

        startActivity(intent);
    }
}
});
}
```

## OUTPUT:



The screenshot shows an Android application interface for sending an email. At the top, the status bar displays the time 14:13, a lock icon, data speed 0.31 KB/s, Wi-Fi, Bluetooth, cellular signal, and 85% battery. The app's title bar is dark blue with the word "Email" in white. Below the title bar, the name "PARTH PATEL-19DCS098" is displayed in orange. There are three input fields with light blue borders: "Name of receiver", "Enter the subject", and "Enter your message". At the bottom, there is a red rectangular button with the text "BUTTON" in white. The bottom of the screen shows the standard Android navigation bar with back, home, and recent apps icons.

14:15

0.05 KB/s

86%

# Email

PARTH PATEL-19DCS098

Name of receiver

Enter the subject

Enter your message

BUTTON

PLEASE FILL THE EMPTY FIELDS!!



14:15

39.0 KB/S

86%

## Email

PARTH PATEL-19DCS098

19dcs098@charusat.edu.in

Enter the subject

Enter your message

BUTTON

PLEASE FILL THE EMPTY FIELDS!!

14:15

4.00 KB/s

Email

PARTH PATEL-19DCS098

19dcs098@charusat.edu.in

Hello !!

Enter your message

BUTTON

PLEASE FILL THE EMPTY FIELDS!!

