**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:**











