

EX:NO:12

SEND EMAIL

REG.NO:210701307

DATE:3/5/2024

AIM:-

Develop an application to send Email.

PROCEDURE:-

Step 1: Create a new Android Project.

Step 2: Design the user Interface.

Step 3: Implement Email sending.

Step 4: Handle Email reception.

Step 5: Test the application.

Step 6: Handle edge cases.

Step 7: Optimize and refine.

PROGRAM CODE:-

AndroidManifest.xml:

```
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.emailsender">
    <uses-permission android:name="android.permission.INTERNET" />
    <uses-permission android:name="android.permission.SEND_EMAIL" />
    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
```

```

        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="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" />
            </intent-filter>
        </activity>
    </application>
</manifest>

```

activity_main.xml:

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">
    <!-- Input fields for email address, subject, and message body -->
    <EditText
        android:id="@+id/editTextEmailAddress"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"

```

```
    android:hint="Email Address" />
```

```
<EditText
```

```
    android:id="@+id/editTextSubject"
```

```
    android:layout_below="@id/editTextEmailAddress"
```

```
    android:layout_width="match_parent"
```

```
    android:layout_height="wrap_content"
```

```
    android:layout_marginTop="16dp"
```

```
    android:hint="Subject" />
```

```
<EditText
```

```
    android:id="@+id/editTextMessage"
```

```
    android:layout_below="@id/editTextSubject"
```

```
    android:layout_width="match_parent"
```

```
    android:layout_height="wrap_content"
```

```
    android:layout_marginTop="16dp"
```

```
    android:hint="Message" />
```

```
<!-- Button to send email -->
```

```
<Button
```

```
    android:id="@+id/buttonSendEmail"
```

```
    android:layout_below="@id/editTextMessage"
```

```
    android:layout_width="wrap_content"
```

```
    android:layout_height="wrap_content"
```

```
    android:layout_centerHorizontal="true"
```

```
    android:layout_marginTop="16dp"
```

```
        android:text="Send Email" />
    </RelativeLayout>
```

MainActivity.kt:

```
package com.example.emailsender

import android.content.Intent
import android.net.Uri
import android.os.Bundle
import android.widget.Button
import android.widget.EditText
import androidx.appcompat.app.AppCompatActivity

class MainActivity : AppCompatActivity() {

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)

        val editTextEmailAddress =
            findViewById<EditText>(R.id.editTextEmailAddress)

        val editTextSubject = findViewById<EditText>(R.id.editTextSubject)
        val editTextMessage = findViewById<EditText>(R.id.editTextMessage)
        val buttonSendEmail = findViewById<Button>(R.id.buttonSendEmail)
        buttonSendEmail.setOnClickListener {

            val emailAddress = editTextEmailAddress.text.toString().trim()
            val subject = editTextSubject.text.toString().trim()
            val message = editTextMessage.text.toString().trim()
```

```

        if (emailAddress.isNotEmpty() && subject.isNotEmpty() &&
message.isNotEmpty()) {

            sendEmail(emailAddress, subject, message)

        } else {

            // Handle empty fields

        }

    }

}

private fun sendEmail(emailAddress: String, subject: String, message: String) {

    val intent = Intent(Intent.ACTION_SENDTO).apply {

        data = Uri.parse("mailto:")

        putExtra(Intent.EXTRA_EMAIL, arrayOf(emailAddress))

        putExtra(Intent.EXTRA_SUBJECT, subject)

        putExtra(Intent.EXTRA_TEXT, message)

    }

    if (intent.resolveActivity(packageManager) != null) {

        startActivity(intent)

    } else {

        // Handle no email app installed

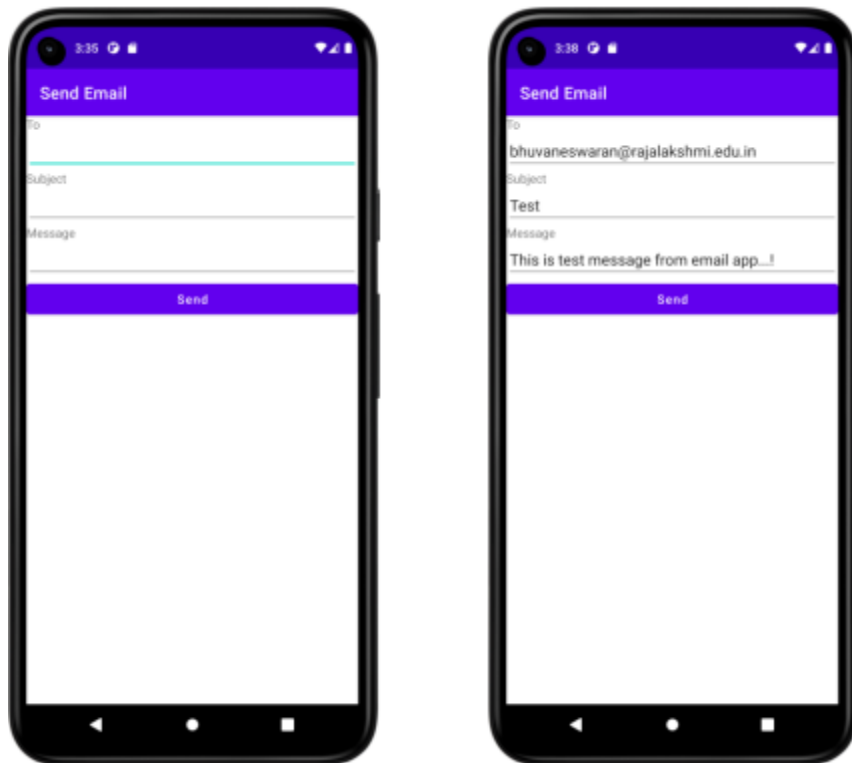
    }

}

}

```

OUTPUT:-



RESULT:-

Thus to develop an application to send Email is implemented and executed successfully.