

Ex. No. : 8b

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Send EMAIL

Aim

Develop an application to send EMAIL

Procedure:

Step 1 : File -> NewProject

Provide the application name and Click "Next"

Step 2 : Select the target android devices

Select the minimum SDK to run the application. Click "Next".

Step 3 : Choose the activity for the application (By default choose "Blank Activity").

Click "Next".

Step 4 : Enter activity name and click "Finish".

Step 5 : Edit the program.

Step 6 : Run the application, 2-ways to run the application.

1. Running through emulator
2. Running through mobile device

AndroidManifest.xml

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.mad82">

    <!-- Required permission to send SMS -->
    <uses-permission android:name="android.permission.SEND_SMS" />

    <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/Theme.Mad82">
        <activity
            android:name=".MainActivity"
            android:exported="true">
            <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"?>
<androidx.constraintlayout.widget.Constraint
Layout
xmlns:android="http://schemas.android.com
/apk/res/android"

xmlns:app="http://schemas.android.com/ap
k/res-auto"

xmlns:tools="http://schemas.android.com/to
ols"
    android:id="@+id/main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <EditText
        android:id="@+id/phoneno"
        android:layout_width="248dp"
        android:layout_height="67dp"
        android:layout_marginTop="60dp"
        android:ems="10"
        android:hint="Enter Phone Number"
        android:inputType="phone"

    app:layout_constraintEnd_toEndOf="parent"

    app:layout_constraintStart_toStartOf="parent
"

    app:layout_constraintTop_toTopOf="parent"
/>

    <EditText
        android:id="@+id/message"
        android:layout_width="249dp"
        android:layout_height="234dp"
        android:layout_marginTop="144dp"
        android:ems="10"
        android:hint="Enter Message"
        android:gravity="start|top"
        android:inputType="textMultiLine"

    app:layout_constraintEnd_toEndOf="parent"

    app:layout_constraintStart_toStartOf="parent
"
```

```
app:layout_constraintTop_toBottomOf="@id/
phoneno" />
```

```
<Button
    android:id="@+id/send"
    android:layout_width="184dp"
    android:layout_height="50dp"
    android:layout_marginTop="24dp"
    android:text="SEND"
```

```
app:layout_constraintTop_toBottomOf="@id/
message"
```

```
app:layout_constraintStart_toStartOf="parent
"
```

```
app:layout_constraintEnd_toEndOf="parent"
/>
</androidx.constraintlayout.widget.Constrai
ntLayout>
```

MainActivity.kt

```
package com.example.mad82

import android.Manifest
import android.content.pm.PackageManager
import android.os.Bundle
import android.telephony.SmsManager
import android.widget.Button
import android.widget.EditText
import android.widget.Toast
import androidx.appcompat.app.AppCompatActivity
import androidx.core.app.ActivityCompat
import androidx.core.content.ContextCompat
import androidx.core.text.isDigitsOnly

class MainActivity : AppCompatActivity() {

    private val SEND_SMS_PERMISSION_REQUEST_CODE = 1

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

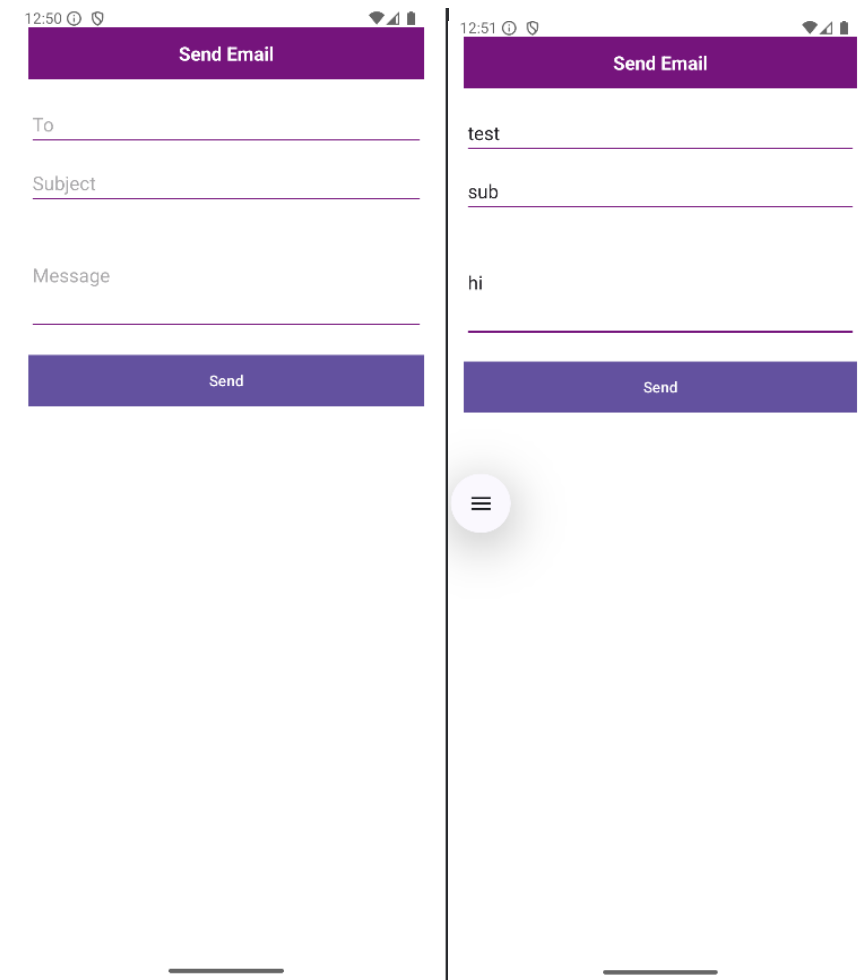
        val phoneNumberEditText = findViewById<EditText>(R.id.phoneno)
        val messageEditText = findViewById<EditText>(R.id.message)
        val sendSmsButton = findViewById<Button>(R.id.send)

        sendSmsButton.setOnClickListener {
            val phoneNumber = phoneNumberEditText.text.toString()
            val message = messageEditText.text.toString()
        private fun sendSMS(phoneNumber: String, message: String) {
            try {
                val smsManager = SmsManager.getDefault()
                smsManager.sendTextMessage(phoneNumber, null, message, null, null)
                Toast.makeText(this, "SMS sent!", Toast.LENGTH_SHORT).show()
            }

            override fun onRequestPermissionsResult(
                requestCode: Int,
                permissions: Array<out String>,
                grantResults: IntArray
            ) {
                super.onRequestPermissionsResult(requestCode, permissions, grantResults)

                if (requestCode == SEND_SMS_PERMISSION_REQUEST_CODE) {
                    if (grantResults.isNotEmpty() && grantResults[0] == PackageManager.PERMISSION_GRANTED) {
                        Toast.makeText(this, "Permission granted! Click SEND again.", Toast.LENGTH_SHORT).show()
                    } else {
                        Toast.makeText(this, "Permission denied. Cannot send SMS.", Toast.LENGTH_SHORT).show()
                    }
                }
            }
        }
    }
}
```

OUTPUT:



Result:

The experiment has been executed successfully