Ex. No.   :   8a   **Date:04/05/25**

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Send SMS

Aim

 Develop an application to send SMS
.
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
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.mad81">

    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="MAD81 Email App"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/Theme.EmailApplication">

        <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
<?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:id="@+id/main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <EditText
        android:id="@+id/email"
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        android:hint="@string/email"
        android:inputType="textEmailAddress"
        android:padding="12dp"
        android:layout_marginTop="32dp"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintEnd_toEndOf="parent"/>

    <EditText
        android:id="@+id/subject"
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        android:layout_marginTop="16dp"
        android:hint="@string/sub"
        android:inputType="text"
        android:padding="12dp"
        app:layout_constraintTop_toBottomOf="@id/email"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintEnd_toEndOf="parent"/>

    <EditText
        android:id="@+id/etmessage"
        android:layout_width="0dp"
        android:layout_height="0dp"
        android:layout_marginTop="16dp"
        android:gravity="start|top"
        android:hint="@string/message"
```

```xml
android:inputType="textMultiLine"
    android:padding="12dp"
    app:layout_constraintTop_toBottomOf="@id/subject"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHeight_percent="0.4"/>

  <Button
    android:id="@+id/send"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="16dp"
    android:paddingLeft="32dp"
    android:paddingTop="16dp"
    android:paddingRight="32dp"
    android:paddingBottom="16dp"
    android:text="@string/send"
    app:layout_constraintTop_toBottomOf="@id/etmessage"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintEnd_toEndOf="parent"/>
</androidx.constraintlayout.widget.ConstraintLayout>
```

MainActivity.kt

```kotlin
package com.example.mad81

import android.content.Intent
import android.net.Uri
import android.os.Bundle
import android.widget.Button
import android.widget.EditText
import android.widget.Toast
import androidx.activity.enableEdgeToEdge
import androidx.appcompat.app.AppCompatActivity
import androidx.core.view.ViewCompat
import androidx.core.view.WindowInsetsCompat

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

        val recipientEditText = findViewById<EditText>(R.id.email)
        val subjectEditText = findViewById<EditText>(R.id.subject)
        val messageEditText = findViewById<EditText>(R.id.etmessage)
        val sendButton = findViewById<Button>(R.id.send)

        sendButton.setOnClickListener {
            val recipient = recipientEditText.text.toString().trim()
            val subject = subjectEditText.text.toString().trim()
            val message = messageEditText.text.toString().trim()

            if (recipient.isNotEmpty() && subject.isNotEmpty() && message.isNotEmpty()) {
                val mailto = "mailto:$recipient" +
                    "?subject=" + Uri.encode(subject) +
                    "&body=" + Uri.encode(message)

                val emailIntent = Intent(Intent.ACTION_SENDTO).apply {
                    data = Uri.parse(mailto)
                }

                try {
                    startActivity(Intent.createChooser(emailIntent, "Send email..."))
                } catch (e: Exception) {
                    Toast.makeText(this, "No email app found", Toast.LENGTH_SHORT).show()
                }
            }
```
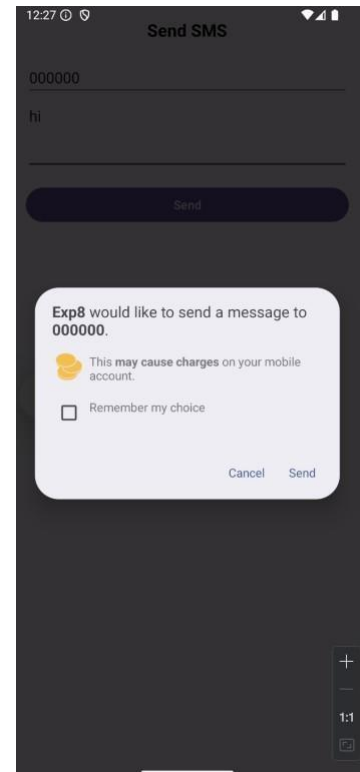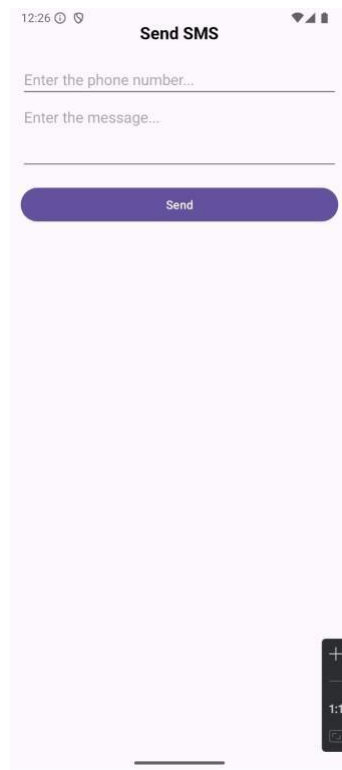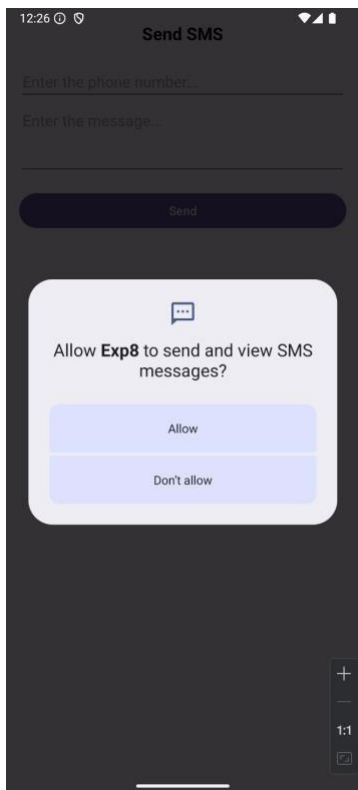
Output

Result:

The experiment has been executed successfully