Experiment Number 29 (Exercise 1):
Write a program to send and receive SMS, make use of following GUI.

Code for AndroidManifest.xml location manifest
```
<uses-permission android:name="android.permission.SEND_SMS"/>
<uses-permission android:name="android.permission.RECEIVE_SMS"/>
```

Code for MainActivity.java location java

```java
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.telephony.SmsManager;
import android.view.View;
import android.widget.EditText;
import android.widget.Toast;

public class MainActivity extends Activity {
    EditText mobileno, message;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        mobileno = findViewById(R.id.editText1);
        message = findViewById(R.id.editText2);
    }
    public void sendSMS(View v) {
        String s1 = mobileno.getText().toString();
        String s2 = message.getText().toString();
        SmsManager sms = SmsManager.getDefault();
        sms.sendTextMessage(s1, null, s2, null, null);
        Toast.makeText(MainActivity.this, "SMS Sent", Toast.LENGTH_SHORT).show();
    }
}
```

code for activity_main.xml location layout folder

```xml
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@android:color/white"
    android:orientation="vertical">
    <EditText
        android:id="@+id/editText1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginLeft="50dp"
        android:layout_marginTop="50dp"
        android:ems="10"
        android:hint="Mobile Number"/>
    <EditText
        android:id="@+id/editText2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginLeft="50dp"
        android:layout_marginTop="50dp"
        android:ems="10"
```

```
        android:inputType="textMultiLine" />
    <Button android:id="@+id/button1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginLeft="50dp"
        android:layout_marginTop="50dp"
        android:text="Send SMS"
        android:onClick="sendSMS"/>
</LinearLayout>
```

Output: