

Program-6:-Develop an application to send SMS to particular contact from the Phonebook.

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:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="SMS SEND EXAMPLE"
        android:textSize="24sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.125" />

    <EditText
        android:id="@+id/editTextTextPersonName"
        android:layout_width="360dp"
        android:layout_height="63dp"
        android:ems="10"
        android:hint="eg:123456789"
        android:inputType="number|textPersonName"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.22" />

    <EditText
        android:id="@+id/editTextTextPersonName2"
        android:layout_width="362dp"
        android:layout_height="62dp"
        android:ems="10"
        android:hint="message"
        android:inputType="textPersonName"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.577"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.38" />

    <Button
        android:id="@+id/button"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="SEND"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.585" />

</androidx.constraintlayout.widget.ConstraintLayout>
```

MainActivity.java:-

```
package com.durgesh.sms_example;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.telephony.SmsManager;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        EditText mobile=findViewById(R.id.editTextTextPersonName);
        EditText textMessage=findViewById(R.id.editTextTextPersonName2);
        Button button=findViewById(R.id.button);

        button.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                try {
                    SmsManager smsManager = SmsManager.getDefault();
                    smsManager.sendTextMessage(mobile.getText().toString(),null,
textMessage.getText().toString(), null, null);
                    Toast.makeText(MainActivity.this, "SMS Send Successfully",
Toast.LENGTH_SHORT).show();
                }catch (Exception e)
                {
                    Toast.makeText(MainActivity.this, "SMS Failed to Send Please try again!!",
Toast.LENGTH_SHORT).show();
                }
            }
        });
    }
}
```

Give SEND SMS permission in Androidfest.xml file

```
<uses-permission android:name="android.permission.SEND_SMS"/>
```

Output:-

