

# Experiment – 6

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Semester: 6th

Subject Name: MAD Lab Subject Code: 20CSP-351

#### Aim:

To design an android application Send SMS using Intent.

### **Objective:**

To design an android application that Send SMS directly.

## **System Requirement:**

- Android Studio
- Java JDK5 or Above
- SDK
- JRE

# **Steps of Experiment:**

The first step is to create a simple Android Application using Android studio.

Step 1: Create a New Project

Step 2: Write the permission code in Android-Manifest.xml file

#### **Source Code:**

#### AndroidManifest.xml

<uses-permission android:name="android.permission.SEND\_SMS"/>

### MainActivity.java

```
package com.example.a20bcs9713_exp_6;
import androidx.annotation.NonNull;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.app.ActivityCompat;
import androidx.core.content.ContextCompat;
import android. Manifest;
import android.content.pm.PackageManager;
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 {
  EditText editTextPhone, getEditTextMessage;
  Button btnSent:
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    editTextPhone = findViewById(R.id.editTextPhone);
    getEditTextMessage = findViewById(R.id.editTextMessage);
    btnSent = findViewById(R.id.btnSent);
    btnSent.setOnClickListener(new View.OnClickListener() {
       @Override
       public void onClick(View v) {
         if (ContextCompat.checkSelfPermission(MainActivity.this,
Manifest.permission.SEND_SMS)
```

```
== PackageManager.PERMISSION_GRANTED) {
           sendSMS();
         } else {
           ActivityCompat.requestPermissions(MainActivity.this, new
String[]{Manifest.permission.SEND_SMS}, 100);
       }
    });
  }
  @Override
  public void onRequestPermissionsResult(int requestCode, @NonNull String[] permissions,
@NonNull int[] grantResults) {
    super.onRequestPermissionsResult(requestCode, permissions, grantResults);
    if(requestCode == 100 && grantResults.length > 0 && grantResults[0] ==
PackageManager.PERMISSION_GRANTED) {
      sendSMS();
    } else {
      Toast.makeText(this, "Permission Denied", Toast.LENGTH_SHORT).show();
  }
  private void sendSMS() {
    String phone = editTextPhone.getText().toString();
    String message = getEditTextMessage.getText().toString();
    if(!phone.isEmpty() && !message.isEmpty()){
      SmsManager smsManager = SmsManager.getDefault();
      smsManager.sendTextMessage(phone, null, message, null, null);
      Toast.makeText(this, "SMS sent Successfully", Toast.LENGTH_SHORT).show();
    } else {
      Toast.makeText(this, "Please enter Phone & Message", Toast.LENGTH_SHORT).show();
```

# activity\_main.xml

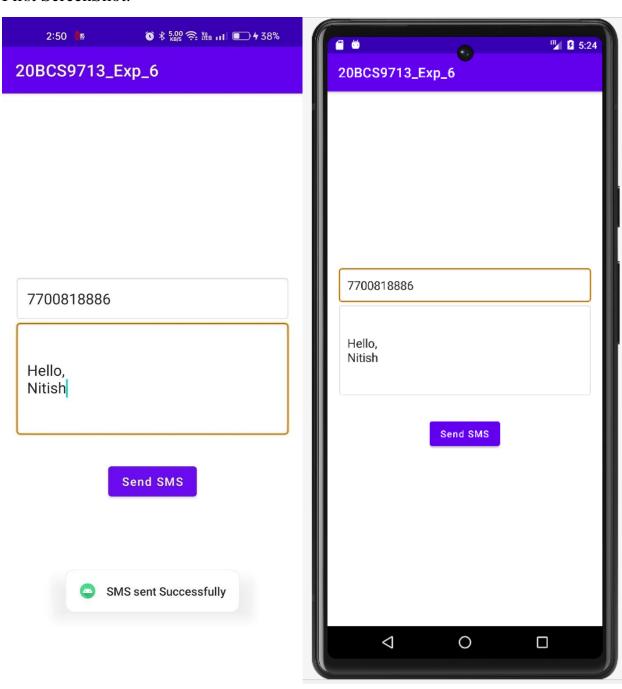
```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
  xmlns:android="http://schemas.android.com/apk/res/android"
  xmlns:app="http://schemas.android.com/apk/res-auto"</pre>
```

```
xmlns:tools="http://schemas.android.com/tools"
  android:layout_width="match_parent"
  android:layout_height="match_parent"
  android:orientation="vertical"
  android:gravity="center"
  android:padding="15sp"
  tools:context=".MainActivity">
  <EditText
    android:background="@android:drawable/editbox_background"
    android:inputType="phone"
    android:maxLength="10"
    android:padding="15sp"
    android:id="@+id/editTextPhone"
    android:hint="Enter Phone Number"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    />
  <EditText
    android:layout_below="@id/editTextPhone"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/editTextMessage"
    android:hint="Enter Message"
    android:padding="15sp"
    android:inputType="textMultiLine"
    android:lines="5"
    android:background="@android:drawable/editbox background"
    />
  <Button
    android:layout_below="@id/editTextMessage"
    android:layout_centerHorizontal="true"
    android:layout_width="wrap_content"
    android:layout height="wrap content"
    android:id="@+id/btnSent"
    android:text="Send SMS"
    android:textAllCaps="false"
    android:layout_marginTop="30dp"
</RelativeLayout>
```



# **Running App on Mobile:**

First ScreenShot:





### Second Screenshot:

