**Assignment-13**

**Aim:Create an Android application to send the SMS.**

**Code:**

<?xml version="1.0" encoding="utf-8"?>

<LinearLayout 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"

android:orientation="vertical"

android:gravity="center"

android:padding="16dp"

tools:context=".sms">

<ImageView

android:id="@+id/imageView"

android:layout\_width="125dp"

android:layout\_height="60dp"

android:scaleType="centerCrop"

android:src="@drawable/ppsu" />

<TextView

android:id="@+id/textView"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:textSize="23dp"

android:layout\_marginTop="20dp"

android:text="Welcome to PPSU!"

tools:ignore="DuplicateIds" />

<TextView

android:id="@+id/textView2"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:textSize="16dp"

android:layout\_marginTop="5dp"

android:layout\_marginLeft="8dp"

android:text="Keep putting your Number and Message 😊" />

<EditText

android:id="@+id/editPhone"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="Enter phone number"

android:inputType="phone"

android:layout\_marginTop="18dp"/>

<EditText

android:id="@+id/editMessage"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="Enter message"

android:inputType="textMultiLine"

android:minLines="3"

android:layout\_marginTop="8dp" />

<Button

android:id="@+id/btnSend"

android:layout\_width="150dp"

android:layout\_height="50dp"

android:text="Send SMS"

android:layout\_marginTop="5dp"/>

</LinearLayout>

**.Java code:**

package com.example.myapplication;

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;

import androidx.annotation.NonNull;

import androidx.appcompat.app.AppCompatActivity;

import androidx.core.app.ActivityCompat;

import androidx.core.content.ContextCompat;

public class sms extends AppCompatActivity {

private static final int PERMISSION\_REQUEST\_CODE = 1;

private EditText editPhone, editMessage;

private Button btnSend;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_sms);

editPhone = findViewById(R.id.editPhone);

editMessage = findViewById(R.id.editMessage);

btnSend = findViewById(R.id.btnSend);

btnSend.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

if (ContextCompat.checkSelfPermission(sms.this,

Manifest.permission.SEND\_SMS) != PackageManager.PERMISSION\_GRANTED) {

ActivityCompat.requestPermissions(sms.this,

new String[]{Manifest.permission.SEND\_SMS},

PERMISSION\_REQUEST\_CODE);

} else {

sendSMS();

}

}

});

}

private void sendSMS() {

String phone = editPhone.getText().toString().trim();

String message = editMessage.getText().toString().trim();

if (!phone.isEmpty() && !message.isEmpty()) {

try {

SmsManager smsManager = SmsManager.getDefault();

smsManager.sendTextMessage(phone, null, message, null, null);

Toast.makeText(this, "SMS Sent", Toast.LENGTH\_SHORT).show();

} catch (Exception e) {

e.printStackTrace();

Toast.makeText(this, "Failed to send SMS: " + e.getMessage(), Toast.LENGTH\_LONG).show();

}

} else {

Toast.makeText(this, "Please enter phone and message", Toast.LENGTH\_SHORT).show();

}

}

@Override

public void onRequestPermissionsResult(int requestCode, @NonNull String[] permissions,

@NonNull int[] grantResults) {

super.onRequestPermissionsResult(requestCode, permissions, grantResults);

if (requestCode == PERMISSION\_REQUEST\_CODE) {

if (permissions.length > 0 && permissions[0].equals(Manifest.permission.SEND\_SMS)) {

if (grantResults.length > 0 && grantResults[0] == PackageManager.PERMISSION\_GRANTED) {

sendSMS();

} else {

Toast.makeText(this, "SMS permission denied", Toast.LENGTH\_SHORT).show();

}

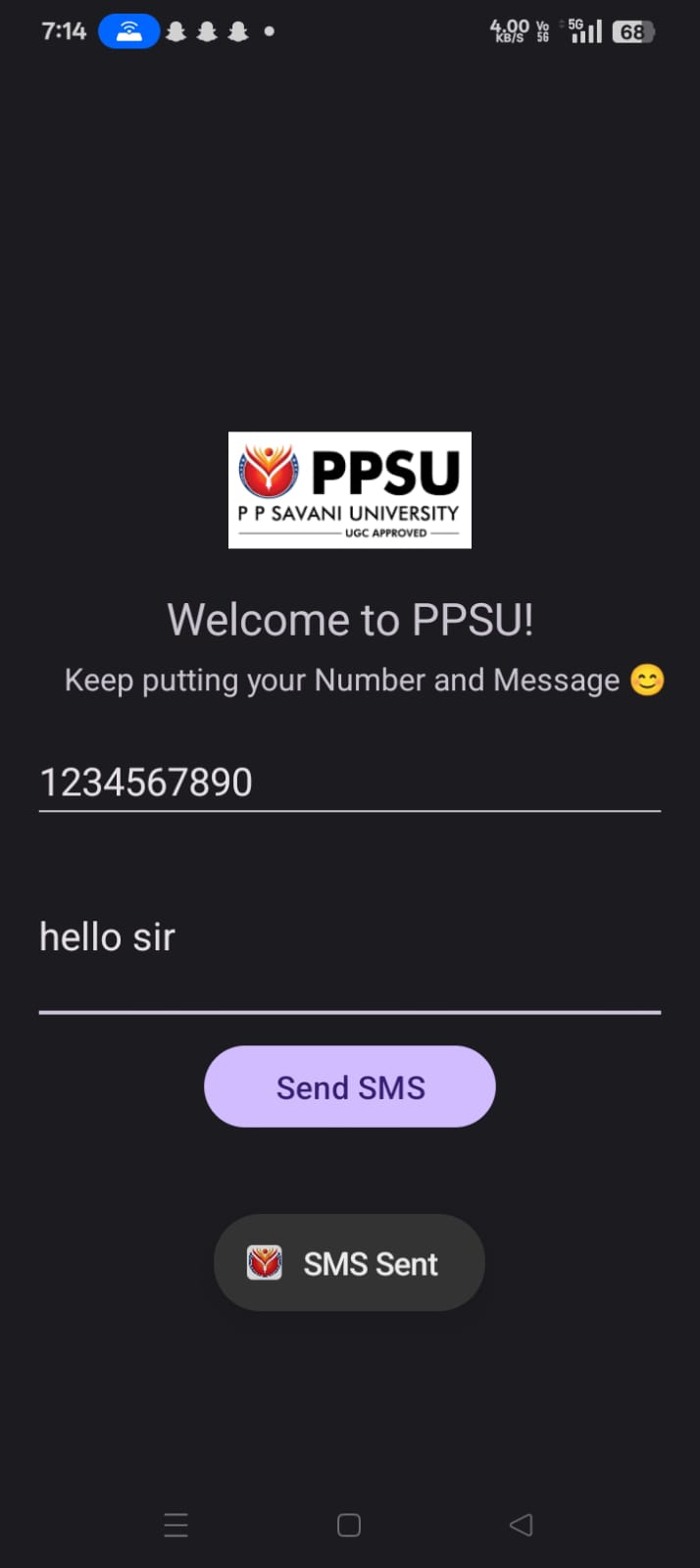
}

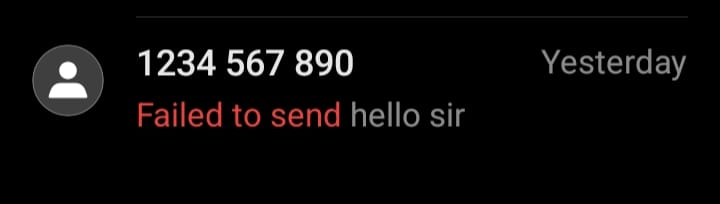
}

}

}

**OUTPUT:**

****

****