**Practical 29**

1. Write a Program to send message(SMS).

Xml 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:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".MainActivity"

android:orientation="vertical">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:textColor="@color/black"

android:layout\_gravity="center"

android:textSize="30dp"

android:layout\_marginTop="25dp"

android:text="Program to Send an SMS"/>

<EditText

android:layout\_width="match\_parent"

android:layout\_height="55dp"

android:layout\_marginLeft="20dp"

android:layout\_marginRight="20dp"

android:layout\_marginTop="70dp"

android:background="@drawable/cstm"

android:textColor="@color/black"

android:textSize="23dp"

android:hint="Enter mobile Number"

android:id="@+id/txt1"/>

<EditText

android:layout\_width="match\_parent"

android:layout\_height="125dp"

android:layout\_marginLeft="20dp"

android:layout\_marginRight="20dp"

android:layout\_marginTop="30dp"

android:background="@drawable/cstm"

android:textColor="@color/black"

android:textSize="25dp"

android:gravity="start"

android:hint="Type Message"

android:id="@+id/txt2"/>

<Button

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Send SMS"

android:textSize="30dp"

android:layout\_gravity="center"

android:layout\_marginTop="30dp"

android:backgroundTint="@color/black"

android:id="@+id/btn"

/>

</LinearLayout>

Java Code :

package com.example.exp29;

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 mob,msg;

Button sms;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

mob = (EditText) findViewById(R.id.txt1);

msg = (EditText) findViewById(R.id.txt2);

sms = (Button) findViewById(R.id.btn);

sms.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

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);

}

}

});

}

public void sendsms(){

String mobno = mob.getText().toString().trim();

String mssg = msg.getText().toString().trim();

if(mobno.equals("")){

Toast.makeText(getApplicationContext(), "Please enter mobile number", Toast.LENGTH\_SHORT).show();

}

else if(mssg.equals("")){

Toast.makeText(getApplicationContext(), "Please enter Message", Toast.LENGTH\_SHORT).show();

}

else if(mobno.length() != 10){

Toast.makeText(getApplicationContext(), "Mobile number should be of 10 digits", Toast.LENGTH\_SHORT).show();

}

else {

SmsManager smsManager = SmsManager.getDefault();

smsManager.sendTextMessage(mobno,null,mssg,null,null);

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

}

}

@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(getApplicationContext(),"Permission Denied!!",Toast.LENGTH\_LONG).show();

}

}

}

Output:

Text

Description automatically generatedText

Description automatically generated

Text

Description automatically generated with medium confidenceText

Description automatically generated with low confidence

1. Write a Program to demonstrate fragments.

Activity\_Main.xml :

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

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"

android:orientation="horizontal"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent">

<fragment android:name="com.example.myapplication.Main6Activity"

android:id="@+id/list"

android:layout\_weight="2"

android:layout\_width="0dp"

android:layout\_height="match\_parent" />

<fragment android:name="com.example.myapplication.Main7Activity"

android:id="@+id/viewer"

android:layout\_weight="2"

android:layout\_width="0dp"

android:layout\_height="match\_parent" />

</LinearLayout>

Main\_Activity.java :

package com.example.myapplication;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

public class Main5Activity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main5);}}

Activity\_main2.xml :

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

<LinearLayout

xmlns:android="http://schemas.android.com/apk/res/android"

android:orientation="vertical"

android:layout\_width="fill\_parent"

android:layout\_height="fill\_parent"

android:background="#000000">

<TextView

android:layout\_width="fill\_parent"

android:layout\_height="wrap\_content"

android:text="Hello Everyone ! Myself Aashutosh"

android:textColor="#FFFFFF"

android:textSize="30dp" />

</LinearLayout>

Main2Activity.java :

package com.example.myapplication;

import androidx.appcompat.app.AppCompatActivity;

import androidx.fragment.app.Fragment;

import android.os.Bundle;

import android.view.LayoutInflater;

import android.view.View;

import android.view.ViewGroup;

public class Main6Activity extends Fragment {

@Override

public void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

}

public View onCreateView(LayoutInflater inflater, ViewGroup container,

Bundle savedInstanceState) {

return inflater.inflate(R.layout.activity\_main6,container, false);}}

Activity\_main3.xml :

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

<LinearLayout

xmlns:android="http://schemas.android.com/apk/res/android"

android:orientation="horizontal"

android:layout\_width="fill\_parent"

android:layout\_height="fill\_parent"

android:background="#666666">

<TextView

android:layout\_width="fill\_parent"

android:layout\_height="wrap\_content"

android:text="Welcome"

android:textColor="#000000"

android:textSize="30dp" />

</LinearLayout>

Main3Activity.java :

package com.example.myapplication;

import androidx.appcompat.app.AppCompatActivity;

import androidx.fragment.app.Fragment;

import android.os.Bundle;

import android.view.LayoutInflater;

import android.view.View;

import android.view.ViewGroup;

public class Main7Activity extends Fragment {

@Override

public void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);}

public View onCreateView(LayoutInflater inflater, ViewGroup container,

Bundle savedInstanceState) {

return inflater.inflate(R.layout.activity\_main7, container, false);}}

Output :

**A screenshot of a computer

Description automatically generated with medium confidence**