# Lab Assignment- 5

**Blue Print:**

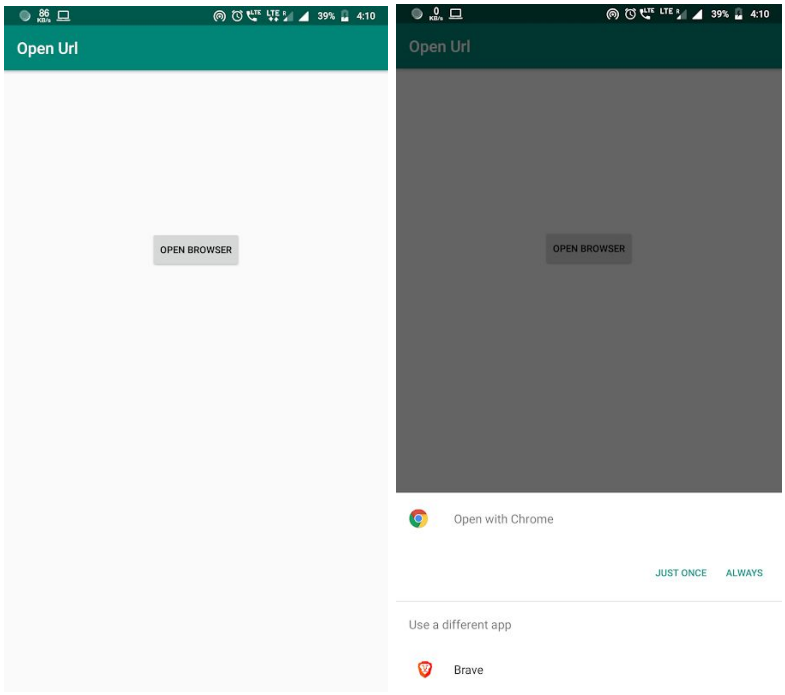
Activity_main.xml:

```
<?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">
    <Button
        android:id="@+id/openbrowser"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="199dp"
        android:text="Open Browser"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

MainActivity.java:

```
package com.example.openurl;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
public class MainActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        Button openBrowser = (Button) findViewById(R.id.openbrowser);
        openBrowser.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent intent = new Intent(Intent.ACTION_VIEW,
Uri.parse("https://abhiandroid.com/"));
                startActivity(intent);
            }
        });
    }
```

Output:




2.

Android supports two types of intents: explicit and implicit. When an application defines its target component in an intent, that it is an explicit intent. When the application does not name a target component, that it is an implicit intent.

| Sr.No | Activity Action Intent & Description |
|---|---|

| | |
|---|---|
| 1 | ACTION_ALL_APPS<br>List all the applications available on the device. |
| 2 | ACTION_ANSWER<br>Handle an incoming phone call. |
| 3 | ACTION_ATTACH_DATA<br>Used to indicate that some piece of data should be attached to some other place |
| 4 | ACTION_BATTERY_CHANGED<br>This is a sticky broadcast containing the charging state, level, and other information about the battery. |
| 5 | ACTION_BATTERY_LOW<br>This broadcast corresponds to the "Low battery warning" system dialog. |
| 6 | ACTION_BATTERY_OKAY<br>This will be sent after ACTION_BATTERY_LOW once the battery has gone back up to an okay state. |
| 7 | ACTION_BOOT_COMPLETED<br>This is broadcast once, after the system has finished booting. |
| 8 | ACTION_BUG_REPORT<br>Show activity for reporting a bug. |
| 9 | ACTION_CALL<br>Perform a call to someone specified by the data. |
| 10 | ACTION_CALL_BUTTON<br>The user pressed the "call" button to go to the dialer or other appropriate UI for placing a call. |
| 11 | ACTION_CAMERA_BUTTON<br>The "Camera Button" was pressed. |
| 12 | ACTION_CHOOSER<br>Display an activity chooser, allowing the user to pick what they want to before proceeding. |
| 13 | ACTION_CONFIGURATION_CHANGED<br>The current device Configuration (orientation, locale, etc) has changed. |

| | |
|---|---|
| 14 | ACTION_DATE_CHANGED<br>The date has changed. |
| 15 | ACTION_DEFAULT<br>A synonym for ACTION_VIEW, the "standard" action that is performed on a piece of data. |
| 16 | ACTION_DELETE<br>Delete the given data from its container. |
| 17 | ACTION_DEVICE_STORAGE_LOW<br>A sticky broadcast that indicates low memory condition on the device. |
| 18 | ACTION_DEVICE_STORAGE_OK<br>Indicates low memory condition on the device no longer exists. |
| 19 | ACTION_DIAL<br>Dial a number as specified by the data. |
| 20 | ACTION_DOCK_EVENT<br>A sticky broadcast for changes in the physical docking state of the device. |
| 21 | ACTION_DREAMING_STARTED<br>Sent after the system starts dreaming. |
| 22 | ACTION_DREAMING_STOPPED<br>Sent after the system stops dreaming. |
| 23 | ACTION_EDIT<br>Provide explicit editable access to the given data. |
| 24 | ACTION_FACTORY_TEST<br>Main entry point for factory tests. |
| 25 | ACTION_GET_CONTENT<br>Allow the user to select a particular kind of data and return it. |
| 26 | ACTION_GTALK_SERVICE_CONNECTED<br>A GTalk connection has been established. |
| 27 | ACTION_GTALK_SERVICE_DISCONNECTED<br>A GTalk connection has been disconnected. |

| | |
|---|---|
| 28 | ACTION_HEADSET_PLUG<br>Wired Headset plugged in or unplugged. |
| 29 | ACTION_INPUT_METHOD_CHANGED<br>An input method has been changed. |
| 30 | ACTION_INSERT<br>Insert an empty item into the given container. |
| 31 | ACTION_INSERT_OR_EDIT<br>Pick an existing item, or insert a new item, and then edit it. |
| 32 | ACTION_INSTALL_PACKAGE<br>Launch application installer. |
| 33 | ACTION_LOCALE_CHANGED<br>The current device's locale has changed. |
| 34 | ACTION_MAIN<br>Start as a main entry point, does not expect to receive data. |
| 35 | ACTION_MEDIA_BUTTON<br>The "Media Button" was pressed. |
| 36 | ACTION_MEDIA_CHECKING<br>External media is present, and being disk-checked. |
| 37 | ACTION_MEDIA_EJECT<br>User has expressed the desire to remove the external storage media. |
| 38 | ACTION_MEDIA_REMOVED<br>External media has been removed. |
| 39 | ACTION_NEW_OUTGOING_CALL<br>An outgoing call is about to be placed. |
| 40 | ACTION_PASTE<br>Create a new item in the given container, initializing it from the current contents of the clipboard. |
| 41 | ACTION_POWER_CONNECTED<br>External power has been connected to the device. |

| | |
|---|---|
| 42 | ACTION_REBOOT<br>Have the device reboot. This is only for use by system code. |
| 43 | ACTION_RUN<br>Run the data, whatever that means. |
| 44 | ACTION_SCREEN_OFF<br>Sent after the screen turns off. |
| 45 | ACTION_SCREEN_ON<br>Sent after the screen turns on. |
| 46 | ACTION_SEARCH<br>Perform a search. |
| 47 | ACTION_SEND<br>Deliver some data to someone else. |
| 48 | ACTION_SENDTO<br>Send a message to someone specified by the data. |
| 49 | ACTION_SEND_MULTIPLE<br>Deliver multiple data to someone else. |
| 50 | ACTION_SET_WALLPAPER<br>Show settings for choosing wallpaper. |
| 51 | ACTION_SHUTDOWN<br>Device is shutting down. |
| 52 | ACTION_SYNC<br>Perform a data synchronization. |
| 53 | ACTION_TIMEZONE_CHANGED<br>The timezone has changed. |
| 54 | ACTION_TIME_CHANGED<br>The time was set. |
| 55 | ACTION_VIEW<br>Display the data to the user. |

| | |
|---|---|
| 56 | ACTION_VOICE_COMMAND<br>Start Voice Command. |
| 57 | ACTION_WALLPAPER_CHANGED<br>The current system wallpaper has changed. |
| 58 | ACTION_WEB_SEARCH<br>Perform a web search. |

Intent Categories:

| Sr.No | Categories & Description |
|---|---|
| 1 | CATEGORY_APP_BROWSER<br>Used with ACTION_MAIN to launch the browser application. |
| 2 | CATEGORY_APP_CALCULATOR<br>Used with ACTION_MAIN to launch the calculator application. |
| 3 | CATEGORY_APP_CALENDAR<br>Used with ACTION_MAIN to launch the calendar application. |
| 4 | CATEGORY_APP_CONTACTS<br>Used with ACTION_MAIN to launch the contacts application. |
| 5 | CATEGORY_APP_EMAIL<br>Used with ACTION_MAIN to launch the email application. |
| 6 | CATEGORY_APP_GALLERY<br>Used with ACTION_MAIN to launch the gallery application. |
| 7 | CATEGORY_APP_MAPS<br>Used with ACTION_MAIN to launch the maps application. |
| 8 | CATEGORY_APP_MARKET<br>This activity allows the user to browse and download new applications. |
| 9 | CATEGORY_APP_MESSAGING<br>Used with ACTION_MAIN to launch the messaging application. |

| | |
|---|---|
| 10 | CATEGORY_APP_MUSIC<br>Used with ACTION_MAIN to launch the music application. |
| 11 | CATEGORY_BROWSABLE<br>Activities that can be safely invoked from a browser must support this category. |
| 12 | CATEGORY_CAR_DOCK<br>An activity to run when device is inserted into a car dock. |
| 13 | CATEGORY_CAR_MODE<br>Used to indicate that the activity can be used in a car environment. |
| 14 | CATEGORY_DEFAULT<br>Set if the activity should be an option for the default action (center press) to perform on a piece of data. |
| 15 | CATEGORY_DESK_DOCK<br>An activity to run when device is inserted into a car dock. |
| 16 | CATEGORY_DEVELOPMENT_PREFERENCE<br>This activity is a development preference panel. |
| 17 | CATEGORY_EMBED<br>Capable of running inside a parent activity container. |
| 18 | CATEGORY_FRAMEWORK_INSTRUMENTATION_TEST<br>To be used as code under test for framework instrumentation tests. |
| 19 | CATEGORY_HE_DESK_DOCK<br>An activity to run when device is inserted into a digital (high end) dock. |
| 20 | CATEGORY_HOME<br>This is the home activity, that is the first activity that is displayed when the device boots. |
| 21 | CATEGORY_INFO<br>Provides information about the package it is in. |
| 22 | CATEGORY_LAUNCHER<br>Should be displayed in the top-level launcher. |

| | |
|---|---|
| 23 | CATEGORY_LE_DESK_DOCK<br>An activity to run when device is inserted into a analog (low end) dock. |
| 24 | CATEGORY_MONKEY<br>This activity may be exercised by the monkey or other automated test tools. |
| 25 | CATEGORY_OPENABLE<br><br>Used to indicate that a GET_CONTENT intent only wants URIs that can be opened with ContentResolver.openInputStream. |
| 26 | CATEGORY_PREFERENCE<br>This activity is a preference panel. |
| 27 | CATEGORY_TAB<br>Intended to be used as a tab inside of a containing TabActivity. |
| 28 | CATEGORY_TEST<br>To be used as a test (not part of the normal user experience). |
| 29 | CATEGORY_UNIT_TEST<br>To be used as a unit test (run through the Test Harness). |

4.Using intent implement an app which can send a mail(with mail id, subject and message )

Blue Print:

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">

    <EditText

        android:id="@+id/to"
```

```
        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:layout_marginTop="82dp"

        android:layout_marginBottom="84dp"

        android:ems="10"

        android:inputType="textPersonName"

        app:layout_constraintBottom_toTopOf="@+id/msg"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent" />

    <EditText

        android:id="@+id/sub"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:layout_marginStart="3dp"

        android:layout_marginLeft="3dp"

        android:layout_marginTop="21dp"
```

```
        android:ems="10"

        android:inputType="textPersonName"

        app:layout_constraintStart_toStartOf="@+id/to"

        app:layout_constraintTop_toBottomOf="@+id/to" />

    <EditText

        android:id="@+id/msg"

        android:layout_width="202dp"

        android:layout_height="67dp"

        android:layout_marginBottom="252dp"

        android:ems="10"

        android:inputType="textPersonName"

        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toBottomOf="@+id/to" />

    <Button

        android:id="@+id/button"
```

```
        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:layout_marginTop="56dp"

        android:text="Send"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toBottomOf="@+id/msg" />

    <TextView

        android:id="@+id/textView2"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:layout_marginStart="20dp"

        android:layout_marginLeft="20dp"

        android:text="To :"

        app:layout_constraintBaseline_toBaselineOf="@+id/to"

        app:layout_constraintStart_toStartOf="parent" />

    <TextView
```

```
        android:id="@+id/textView3"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:layout_marginStart="22dp"

        android:layout_marginLeft="22dp"

        android:text="Subject :"

        app:layout_constraintBaseline_toBaselineOf="@+id/sub"

        app:layout_constraintStart_toStartOf="parent" />

    <TextView

        android:id="@+id/textView4"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:layout_marginStart="22dp"

        android:layout_marginLeft="22dp"

        android:text="Message :"

        app:layout_constraintBaseline_toBaselineOf="@+id/msg"

        app:layout_constraintStart_toStartOf="parent" />
```

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

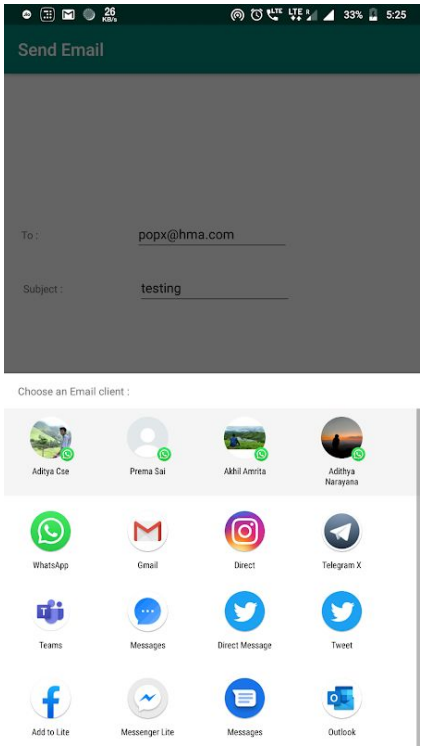
MainActivity.java:

```
package com.example.sendemail;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

public class MainActivity extends AppCompatActivity {

    EditText to,sub,msg;

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

        to = (EditText) findViewById(R.id.to);

        sub = (EditText) findViewById(R.id.sub);
```

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

        Button send = (Button) findViewById(R.id.button);

        send.setOnClickListener(new View.OnClickListener() {

            @Override

            public void onClick(View v) {

                String Rec = to.getText().toString();

                String subject = sub.getText().toString();

                String message = msg.getText().toString();

                Intent email = new Intent(Intent.ACTION_SEND);

                email.putExtra(Intent.EXTRA_EMAIL, new String[]{ Rec});

                email.putExtra(Intent.EXTRA_SUBJECT, subject);

                email.putExtra(Intent.EXTRA_TEXT, message);

                email.setType("text/plain");

                startActivity(Intent.createChooser(email, "Choose an Email client :"));

            }

        });

    }
```

}

Output:




5.Send SMS API

Blueprint:

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">

    <EditText

        android:id="@+id/msg"
```

```
        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:layout_marginTop="268dp"

        android:ems="10"

        android:hint="Enter message"

        android:inputType="textPersonName"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent" />

    <EditText

        android:id="@+id/phno"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:layout_marginTop="175dp"

        android:ems="10"

        android:hint="Enter Phone number"

        android:inputType="textPersonName"
```

```
        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent" />

    <Button

        android:id="@+id/button"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:layout_marginTop="77dp"

        android:text="Send"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toBottomOf="@+id/msg" />

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

MainActivity.java:

```
package com.example.smsapi;

import androidx.appcompat.app.AppCompatActivity;

import androidx.core.app.ActivityCompat;
```

```
import androidx.core.content.ContextCompat;

import android.Manifest;

import android.app.Activity;

import android.content.Context;

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 {

    private static final int MY_PERMISSIONS_REQUEST_SEND_SMS =0 ;

    Button sendBtn;

    EditText txtphoneNo;

    EditText txtMessage;

    String phoneNo;
```

```
    String message;

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

        sendBtn = (Button) findViewById(R.id.button);

        txtphoneNo = (EditText)findViewById(R.id.phno);

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

        sendBtn.setOnClickListener(new View.OnClickListener() {

            @Override

            public void onClick(View v) {

                sendSMSMessage();

            }

        });

    }

    protected void sendSMSMessage(){

        phoneNo = txtphoneNo.getText().toString();
```

```
        message = txtMessage.getText().toString();

        if(ContextCompat.checkSelfPermission(this, Manifest.permission.SEND_SMS)!=
    PackageManager.PERMISSION_GRANTED){

    if(ActivityCompat.shouldShowRequestPermissionRationale(this,Manifest.permission.SE
    ND_SMS)){

            }

            else{

                ActivityCompat.requestPermissions(this,new
    String[]{Manifest.permission.SEND_SMS},MY_PERMISSIONS_REQUEST_SEND_SMS);

            }

        }

    }

    @Override

    public void onRequestPermissionsResult(int requestCode,String permissions[], int[]
    grantResults) {

        switch (requestCode) {

            case MY_PERMISSIONS_REQUEST_SEND_SMS: {

                if (grantResults.length > 0

                        && grantResults[0] == PackageManager.PERMISSION_GRANTED) {
```

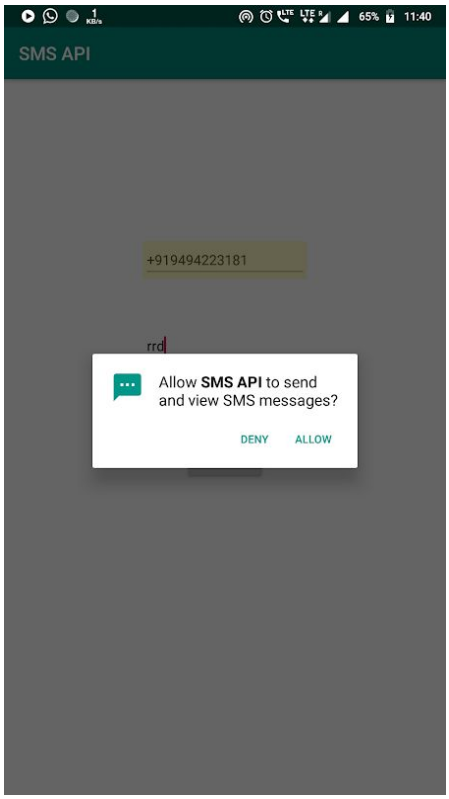
```
                    SmsManager smsManager = SmsManager.getDefault();

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

                    Toast.makeText(getApplicationContext(), "SMS sent.",

                            Toast.LENGTH_LONG).show();

                } else {

                    Toast.makeText(getApplicationContext(),

                            "SMS faild, please try again.", Toast.LENGTH_LONG).show();

                    return;

                }

            }

        }

    }

}
```

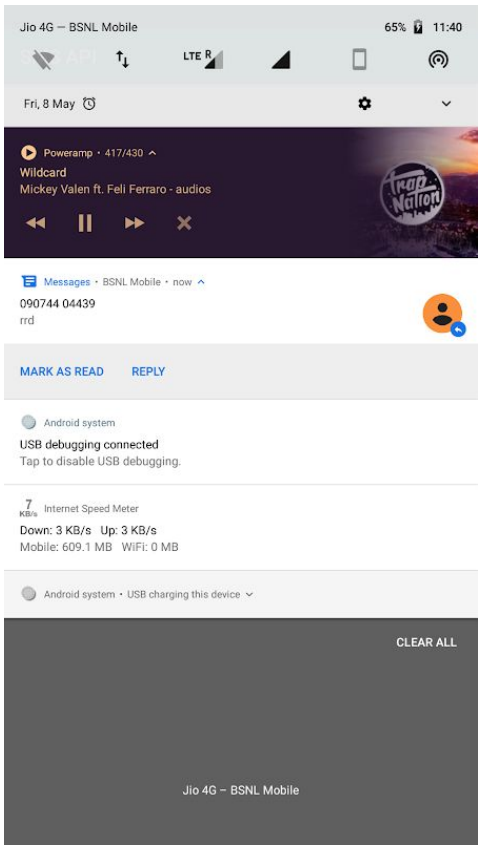
AndroidManifest.xml:

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

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

    package="com.example.smsapi">
```

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

    <application

        android:allowBackup="true"

        android:icon="@mipmap/ic_launcher"

        android:label="@string/app_name"

        android:roundIcon="@mipmap/ic_launcher_round"

        android:supportsRtl="true"

        android:theme="@style/AppTheme">

        <activity android:name=".MainActivity">

            <intent-filter>

                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER" />

            </intent-filter>

        </activity>

    </application>

</manifest>
```

Output:


65% 11:40
SMS API
+919494223181
rrd
Allow SMS API to send and view SMS messages?
DENY
ALLOW




B. intent:

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">

    <EditText

        android:id="@+id/msg"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:layout_marginTop="268dp"

        android:ems="10"

        android:hint="Enter message"

        android:inputType="textPersonName"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent" />

    <EditText

        android:id="@+id/phno"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"
```

```
        android:layout_marginTop="175dp"

        android:ems="10"

        android:hint="Enter Phone number"

        android:inputType="textPersonName"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent" />

    <Button

        android:id="@+id/button"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:layout_marginTop="77dp"

        android:text="Send"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toBottomOf="@+id/msg" />

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

MainActivity.java:

```
package com.example.smsusingintent;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.net.Uri;

import android.os.Bundle;

import android.util.Log;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

    EditText phoneNumber,txtMessage;

    Button send;

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);
```

```
        setContentView(R.layout.activity_main);

        phoneNumber =(EditText)findViewById(R.id.phno);

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

        send = (Button)findViewById(R.id.button);

        send.setOnClickListener(new View.OnClickListener() {

            @Override

            public void onClick(View v) {

                sendSMS();

            }

        });

    }

    protected void sendSMS(){

        Log.i("Send SMS","");

        Intent Msg = new Intent(Intent.ACTION_SEND);

        Msg.setData(Uri.parse("smsto:"));

        Msg.setType("vnd.android-dir/mms-sms");

        Msg.putExtra("address",new String(phoneNumber.getText().toString()));
```

```
        Msg.putExtra("sms_body",txtMessage.getText());

        try {

            startActivity(Msg);

            finish();

            Log.i("Finished sending SMS...", "");

        } catch (android.content.ActivityNotFoundException ex) {

            Toast.makeText(MainActivity.this,"SMS failed, please try again later.",
    Toast.LENGTH_SHORT).show();

        }

    }

}
```

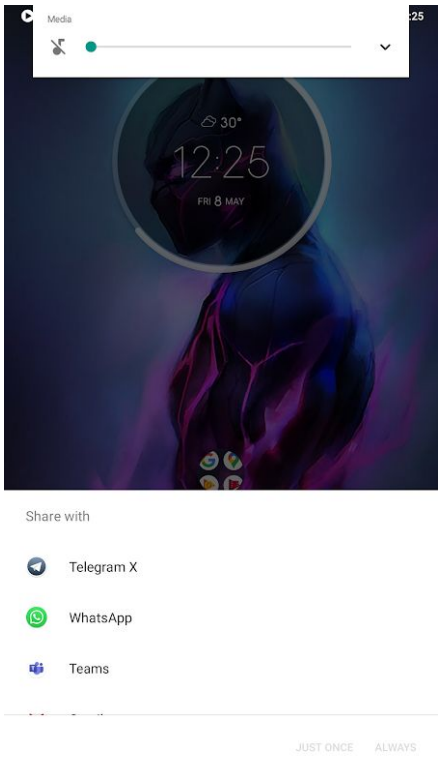
AndroidManifest.xml:

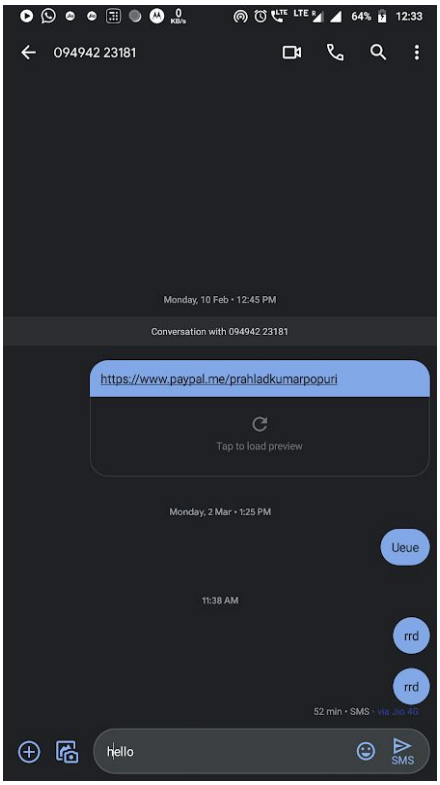
```
<?xml version="1.0" encoding="utf-8"?>

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

    package="com.example.smsusingintent">

    <application

        android:allowBackup="true"

        android:icon="@mipmap/ic_launcher"
```

```
        android:label="@string/app_name"

        android:roundIcon="@mipmap/ic_launcher_round"

        android:supportsRtl="true"

        android:theme="@style/AppTheme">

        <activity android:name=".MainActivity">

            <intent-filter>

                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER" />

            </intent-filter>

        </activity>

    </application>

</manifest>
```

Output:

SMS using Intent
+919494223181
hello
SEND


Media
30°
12:25
FRI 8 MAY
Share with
Telegram X
WhatsApp
Teams
JUST ONCE
ALWAYS


094942 23181
Monday, 10 Feb • 12:45 PM
Conversation with 094942 23181
https://www.paypal.me/prahladkumarpopuri
Tap to load preview
Monday, 2 Mar • 1:25 PM
Ueue
11:38 AM
rrd
rrd
52 min • SMS • via Jio 4G
hello
SMS

6 Phone call

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">

    <EditText

        android:id="@+id/ph"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:layout_marginTop="223dp"

        android:ems="10"

        android:hint="Phone no."

        android:inputType="textPersonName"
```

```
        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent" />

    <Button

        android:id="@+id/button"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:layout_marginTop="70dp"

        android:text="call"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toBottomOf="@+id/ph" />

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

MainActivity.java:

```
package com.example.callintent;

import androidx.appcompat.app.AppCompatActivity;

import androidx.core.app.ActivityCompat;
```

```
import android.Manifest;

import android.content.Intent;

import android.content.pm.PackageManager;

import android.net.Uri;

import android.os.Build;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import java.net.URI;

public class MainActivity extends AppCompatActivity {

    private EditText txtPhone;

    private Button btn;

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);
```

```
        txtPhone = (EditText) findViewById(R.id.ph);

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

        btn.setOnClickListener(new View.OnClickListener() {

            @Override

            public void onClick(View v) {

                callPhoneNumber();

            }

        });

    }

    @Override

    public void onRequestPermissionsResult(int requestCode,String[] permissions,int[]
     grantResults){

        if(requestCode==101){

            if(grantResults[0]==PackageManager.PERMISSION_GRANTED){

                callPhoneNumber();

            }

        }

    }
```

```
    public void callPhoneNumber(){

        try{

            if(Build.VERSION.SDK_INT>22){

                if(ActivityCompat.checkSelfPermission(this,Manifest.permission.CALL_PHONE)!=Packag
                eManager.PERMISSION_GRANTED){

                    ActivityCompat.requestPermissions(MainActivity.this,new
                String[]{Manifest.permission.CALL_PHONE},101);

                    return;

                }

                Intent call = new Intent(Intent.ACTION_CALL);

                call.setData(Uri.parse("tel:"+txtPhone.getText().toString()));

                startActivity(call);

            }

        }

        catch (Exception e){

            e.printStackTrace();

        }

    }
```

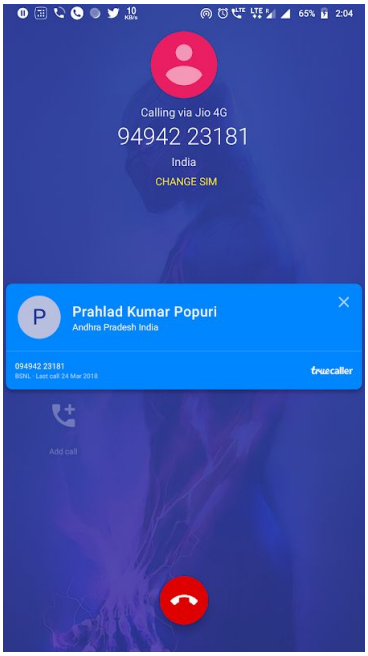
```
}
```

AndroidManifest.xml:

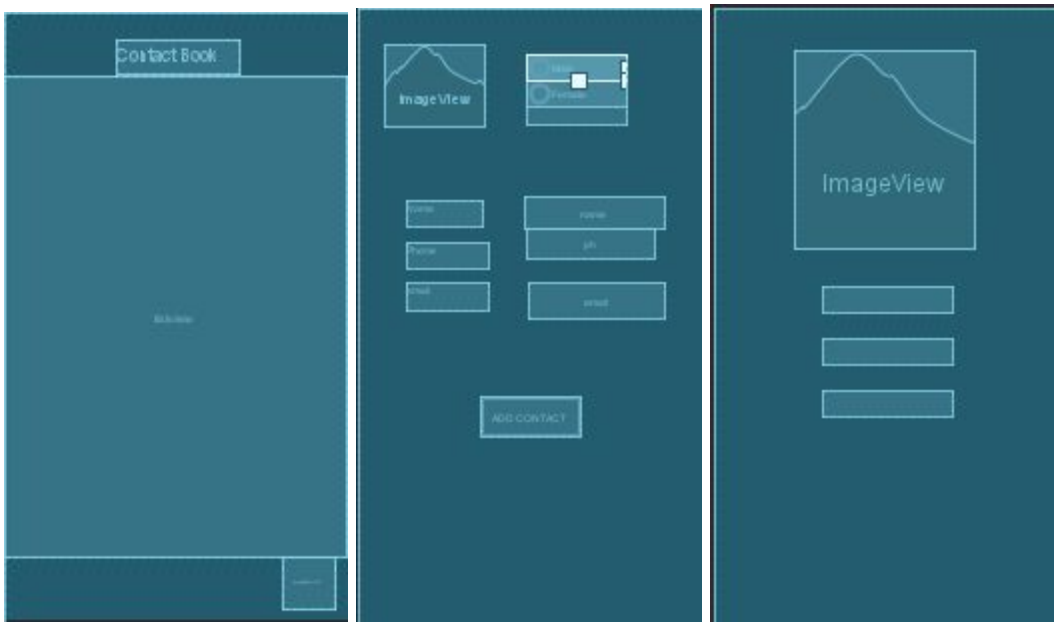
```
<?xml version="1.0" encoding="utf-8"?>

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

    package="com.example.callintent">

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

    <application

        android:allowBackup="true"

        android:icon="@mipmap/ic_launcher"

        android:label="@string/app_name"

        android:roundIcon="@mipmap/ic_launcher_round"

        android:supportsRtl="true"

        android:theme="@style/AppTheme">

        <activity android:name=".MainActivity">

            <intent-filter>

                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER" />
```

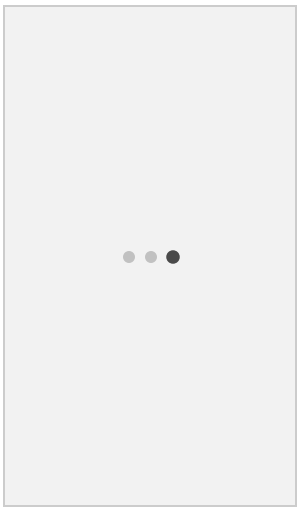
```
            </intent-filter>

        </activity>

    </application>

</manifest>
```

Output:




7.**BLUE Print:**



**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:id="@+id/name"
        android:layout_width="147dp"
        android:layout_height="41dp"
        android:layout_marginTop="33dp"
        android:text="Contact Book"
        android:textSize="24sp"
```

```
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />
    <ImageButton
        android:id="@+id/imageButton2"
        android:layout_width="62dp"
        android:layout_height="62dp"
        android:layout_marginEnd="16dp"
        android:layout_marginRight="16dp"
        android:layout_marginBottom="16dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/listview"
        tools:srcCompat="@drawable/add" />
    <ListView
        android:id="@+id/listview"
        android:layout_width="0dp"
        android:layout_height="0dp"
        android:layout_marginStart="1dp"
        android:layout_marginLeft="1dp"
        android:layout_marginTop="75dp"
        android:layout_marginEnd="1dp"
        android:layout_marginRight="1dp"
        android:layout_marginBottom="1dp"
        app:layout_constraintBottom_toTopOf="@+id/imageButton2"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

**Add_contact.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">
    <ImageView
        android:id="@+id/imageView"
        android:layout_width="0dp"
        android:layout_height="0dp"
        android:layout_marginStart="31dp"
        android:layout_marginLeft="31dp"
        android:layout_marginTop="42dp"
        android:layout_marginEnd="50dp"
        android:layout_marginRight="50dp"
        android:layout_marginBottom="139dp"
        app:layout_constraintBottom_toTopOf="@+id/textView2"
        app:layout_constraintEnd_toStartOf="@+id/radioGroup"
        app:layout_constraintStart_toStartOf="parent"
```

```
        app:layout_constraintTop_toTopOf="parent"
        tools:srcCompat="@drawable/male" />
    <RadioGroup
        android:id="@+id/radioGroup"
        android:layout_width="0dp"
        android:layout_height="0dp"
        android:layout_marginTop="55dp"
        android:layout_marginEnd="91dp"
        android:layout_marginRight="91dp"
        android:layout_marginBottom="86dp"
        app:layout_constraintBottom_toTopOf="@+id/name"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toEndOf="@+id/imageView"
        app:layout_constraintTop_toTopOf="parent">
        <RadioButton
            android:id="@+id/male"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:text="Male"
            android:focusedByDefault="true"/>
        <RadioButton
            android:id="@+id/female"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:text="Female" />
    </RadioGroup>
    <TextView
        android:id="@+id/idname"
        android:layout_width="0dp"
        android:layout_height="32dp"
        android:layout_marginStart="56dp"
        android:layout_marginLeft="56dp"
        android:layout_marginEnd="51dp"
        android:layout_marginRight="51dp"
        android:layout_marginBottom="471dp"
        android:text="Name"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="@+id/imageView"
        app:layout_constraintEnd_toStartOf="@+id/name"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/imageView"
        app:layout_constraintVertical_bias="1.0" />
    <EditText
        android:id="@+id/name"
        android:layout_width="167dp"
        android:layout_height="37dp"
        android:layout_marginEnd="47dp"
        android:layout_marginRight="47dp"
        android:layout_marginBottom="470dp"
        android:ems="10"
```

```
        android:inputType="textPersonName"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toEndOf="@+id/idname"
        app:layout_constraintTop_toBottomOf="@+id/radioGroup" />
    <TextView
        android:id="@+id/textView2"
        android:layout_width="97dp"
        android:layout_height="32dp"
        android:layout_marginStart="2dp"
        android:layout_marginLeft="2dp"
        android:layout_marginBottom="421dp"
        android:text="Phone"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintStart_toStartOf="@+id/idname"
        app:layout_constraintTop_toBottomOf="@+id/imageView" />
    <EditText
        android:id="@+id/ph"
        android:layout_width="152dp"
        android:layout_height="36dp"
        android:ems="10"
        android:inputType="textPersonName"
        app:layout_constraintBottom_toTopOf="@+id/email"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.442"
        app:layout_constraintStart_toEndOf="@+id/textView2"
        app:layout_constraintTop_toBottomOf="@+id/name" />
    <TextView
        android:id="@+id/textView3"
        android:layout_width="0dp"
        android:layout_height="34dp"
        android:layout_marginStart="56dp"
        android:layout_marginLeft="56dp"
        android:layout_marginEnd="49dp"
        android:layout_marginRight="49dp"
        android:text="email"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toStartOf="@+id/email"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/textView2"
        app:layout_constraintVertical_bias="0.043" />
    <EditText
        android:id="@+id/email"
        android:layout_width="161dp"
        android:layout_height="42dp"
        android:layout_marginTop="28dp"
        android:layout_marginEnd="47dp"
        android:layout_marginRight="47dp"
        android:ems="10"
        android:inputType="textPersonName"
```

```
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toEndOf="@+id/textView3"
        app:layout_constraintTop_toBottomOf="@+id/ph" />
    <Button
        android:id="@+id/button"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginBottom="220dp"
        android:text="ADD CONTACT"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

**Activity_secondactivity.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"
    android:orientation="vertical">
    <TextView
        android:id="@+id/email"
        android:layout_width="154dp"
        android:layout_height="32dp"
        android:layout_marginTop="28dp"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.498"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/phone" />
    <ImageView
        android:id="@+id/imageView2"
        android:layout_width="214dp"
        android:layout_height="235dp"
        android:layout_marginStart="96dp"
        android:layout_marginLeft="96dp"
        android:layout_marginTop="84dp"
        android:layout_marginBottom="78dp"
        app:layout_constraintBottom_toTopOf="@+id/name"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        tools:srcCompat="@drawable/male" />
    <TextView
        android:id="@+id/name"
        android:layout_width="154dp"
        android:layout_height="32dp"
        android:layout_marginBottom="403dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
```

```
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/imageView2" />
    <TextView
        android:id="@+id/phone"
        android:layout_width="154dp"
        android:layout_height="32dp"
        android:layout_marginTop="32dp"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.498"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/name" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

**Menu_main.xml:**

```
<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto">
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    tools:context="example.javatpoint.com.optionmenu.MainActivity">
    <item  android:id="@+id/item1"
        android:title="delete"/>
    <item  android:id="@+id/item2"
        android:title="starred"/>
</menu>
```

**Main_Activity.java:**

```
package com.example.contact;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.ImageButton;
import android.widget.ListView;
import java.io.Serializable;
import java.util.ArrayList;
public class MainActivity extends AppCompatActivity {
    ListView simpleList;
    static ArrayList<Item> person = new ArrayList<>();
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        simpleList =(ListView) findViewById(R.id.listview);
//         person.add(new
Item("prahlad","prahladkumar2222@gmail.com","9494223181",R.drawable.male));
//         person.add(new
Item("Jhansi","pvk.pop@gmail.com","9494223181",R.drawable.female));
//         person.add(new
Item("Akhil","p.akhilgupta121@gmail.com","9494223181",R.drawable.male));
```

```
        MyAdapter myAdapter = new
MyAdapter(this,android.R.layout.simple_list_item_1,person);
        simpleList.setAdapter(myAdapter);
        simpleList.setOnItemClickListener(new AdapterView.OnItemClickListener() {
            @Override
            public void onItemClick(AdapterView<?> parent, View view, int position,
long id) {
                Intent intent = new
Intent(getApplicationContext(),secondactivity.class);
                intent.putExtra("description",person.get(position).getName());
                startActivity(intent);
            }
        });
        ImageButton imageButton = findViewById(R.id.imageButton2);
        imageButton.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent i = new Intent(getApplicationContext(),Data.class);
                startActivity(i);
            }
        });
        Intent intent = getIntent();
        String name = intent.getStringExtra("f_name");
        String email = intent.getStringExtra("email");
        String gen = intent.getStringExtra("gender");
        String phone = intent.getStringExtra("phone");
        simpleList = (ListView) findViewById(R.id.listview);
        if (name!=null){
            if (gen.equals("male"))
                person.add(new Item(name,phone,email,R.drawable.male));
            else if(gen.equals("female"))
                person.add(new Item(name,phone,email,R.drawable.female));
        }
    }
    public static ArrayList<Item> getList(){
        return person;
    }
}
```

**Second_activity.java:**

```
package com.example.contact;
import android.content.Intent;
import android.os.Bundle;
import android.view.Menu;
import android.view.MenuInflater;
import android.view.MenuItem;
import android.widget.ImageView;
import android.widget.TextView;
import androidx.annotation.NonNull;
import androidx.appcompat.app.AppCompatActivity;
import java.util.ArrayList;
```

```
import java.util.zip.Inflater;
public class secondactivity extends AppCompatActivity {
    int a[] = {R.id.male,R.id.female};
    static ArrayList<Item> cust= MainActivity.getList();
    TextView fir,ph,email;
    ImageView image;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_secondactivity);
        fir = findViewById(R.id.name);
        ph = findViewById(R.id.phone);
        email = findViewById(R.id.email);
        image =  findViewById(R.id.imageView2);
        Intent intent = getIntent();
        String name=intent.getStringExtra("description");
        for (int i= 0;i<cust.size();i++){
            if(cust.get(i).getName().equals(name)){
                fir.setText(cust.get(i).getName());
                ph.setText(cust.get(i).getPhno());
                email.setText(cust.get(i).getEmail());
                image.setImageResource(cust.get(i).getImage());
            }
        }
    }
    @Override
    public boolean onCreateOptionsMenu(Menu menu) {
        MenuInflater inflater = getMenuInflater();
        inflater.inflate(R.menu.menu_main,menu);
        return true;
    }
    @Override
    public boolean onOptionsItemSelected(@NonNull MenuItem item) {
        return super.onOptionsItemSelected(item);
    }
}
```

**Data.java:**

```
package com.example.contact;
import android.app.Activity;
import android.app.AppComponentFactory;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.ImageView;
import android.widget.RadioButton;
import android.widget.RadioGroup;
import java.util.ArrayList;
public class Data extends Activity {
```

```
    EditText editName,editEmail,editNumber;
    ImageView contactImage;
    Button save;
    private int mGetImage;
    RadioButton male,female;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.add_contact);
        final ArrayList<Item> cust = MainActivity.getList();
        editName= (EditText) findViewById(R.id.name);
        editEmail= (EditText) findViewById(R.id.email);
        editNumber= (EditText) findViewById(R.id.ph);
        contactImage= (ImageView) findViewById(R.id.imageView);
        contactImage.setImageResource(R.drawable.male);
        Intent intent = getIntent();
        save= (Button) findViewById(R.id.button);
        save.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                male = (RadioButton) findViewById(R.id.male);
                female = (RadioButton) findViewById(R.id.female);
                int arr[] ={R.drawable.male,R.drawable.female};
                int i=0;
                if(male.isChecked()){
                    contactImage.setImageResource(R.drawable.male);
                    i=0;
                }
                else{
                    contactImage.setImageResource(R.drawable.male);
                    i=1;
                }
//
                cust.add(new
Item(editName.getText().toString(),editEmail.getText().toString(),editNumber.getText()
.toString(),arr[i]));
                Intent intent5=new Intent(Data.this,MainActivity.class);
                startActivity(intent5);
                finish();
            }
        });
    }
    @Override
    protected void onActivityResult(int requestCode, int resultCode, Intent data) {
        super.onActivityResult(requestCode, resultCode, data);
        mGetImage =data.getExtras().getInt("img",1);
        contactImage.setImageResource(mGetImage);
    }
}
```

**MyAdpater.java:**

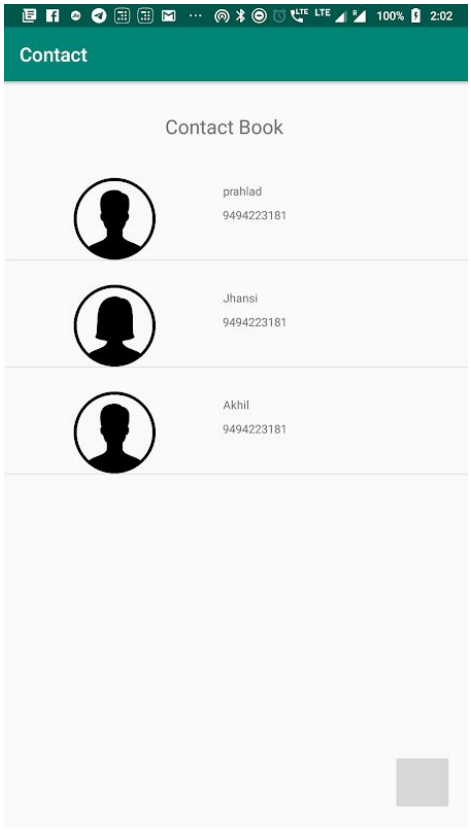
```
package com.example.contact;
import android.content.Context;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.ArrayAdapter;
import android.widget.ImageView;
import android.widget.TextView;
import java.util.ArrayList;
public class MyAdapter extends ArrayAdapter<Item> {
    ArrayList<Item> person = new ArrayList<>();
    TextView name,email,phone;
    public MyAdapter(Context context, int textViewResourseId, ArrayList<Item> objects){
        super(context, textViewResourseId,objects);
        person = objects;
    }
    @Override
    public int getCount(){
        return super.getCount();
    }
    @Override
    public View getView(int position, View convertView, ViewGroup parent){
        View v = convertView;
        LayoutInflater inflater = (LayoutInflater)
getContext().getSystemService(Context.LAYOUT_INFLATER_SERVICE);
        v = inflater.inflate(R.layout.list_view_items, null);
        name  = (TextView) v.findViewById(R.id.name);
        name.setText(person.get(position).getName());
//          email  = (TextView) v.findViewById(R.id.email);
//          email.setText(person.get(position).getEmail());
        phone  = (TextView) v.findViewById(R.id.ph);
        phone.setText(person.get(position).getPhno());
        ImageView imageView = (ImageView) v.findViewById(R.id.image);
        imageView.setImageResource(person.get(position).getImage());
        return v;
    }
}
```

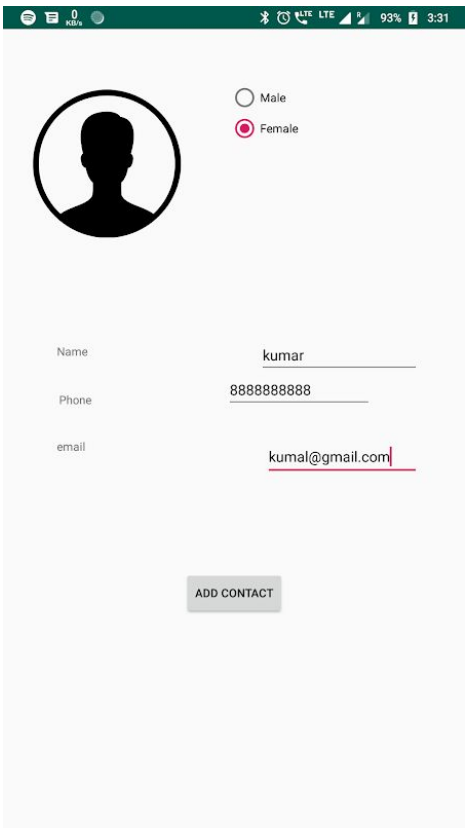
**Item.java:**

```
package com.example.contact;
import java.io.Serializable;
public class Item implements Serializable {
    String name, ph,email;
    int img;
    public Item(String first,String email,String phno,int image){
        this.email=email;
        this.name= first;
        this.ph=phno;
        this.img=image;
    }
    public String getEmail()
```

```
    {
        return email;
    }
    public void setEmail(String email) {
        this.email = email;
    }
    public int getImage()
    {
        return img;
    }
    public String getName()
    {
        return name;
    }
    public void setName(String name) {
        this.name = name;
    }
    public String getPhno()
    {
        return ph;
    }
    public void setNumber(String number) {
        this.ph = number;
    }
    public void setImageId(int imageId) {
        this.img = imageId;
    }
}
```

OUTPUT:


100% 2:02
Contact
Contact Book
prahlad
9494223181
Jhansi
9494223181
Akhil
9494223181


93% 3:31
Male
Female
Name
kumar
Phone
8888888888
email
kumal@gmail.com
ADD CONTACT

100% 2:03
Contact
delete
starred
Jhansi
9494223181
pvk.pop@gmail.com