

Question :

Create the Telephone API in android application to make a call in predefined contact number (the contact number is inserted through the code, do not import the contact form user's contact list)

OR

Design the Telephone API in android to make a call.

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"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:orientation="vertical">

        <EditText
            android:hint="Enter Phone Number"
            android:id="@+id/phNumber"
            android:layout_width="fill_parent"
            android:layout_height="81dp"
            android:ems="5" />

        <Button
            android:id="@+id/dialPhNumber"
            android:layout_width="fill_parent"
            android:layout_height="45dp"
            android:text="Call Number" />

    </LinearLayout>
</RelativeLayout>
```

Main Activity.java

```
package com.maharashtracollege.profshahidansari;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.graphics.Color;
import android.os.Bundle;
```

```

import android.app.Activity;
import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import android.view.Menu;
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);

        Button dialPhNumber = (Button) findViewById(R.id.dialPhNumber);
        dialPhNumber.setOnClickListener(new View.OnClickListener() {
            public void onClick(View view) {

                Toast.makeText(getApplicationContext(), "Mobile is
Calling", Toast.LENGTH_SHORT).show();
                try {
                    EditText phNumber = (EditText) findViewById(R.id.phNumber);

                    Intent implicit1 = new Intent(Intent.ACTION_CALL, Uri.parse("tel:" +
phNumber.getText().toString()));
                    startActivity(implicit1);
                    Toast.makeText(getApplicationContext(), "Mobile is
Calling", Toast.LENGTH_SHORT).show();

                }
                catch (SecurityException e)
                {}
            }
        });
    }
}

```

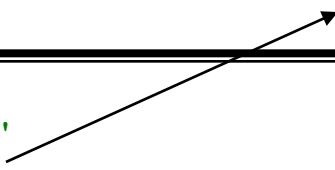
Now find the android manifest that will configure the activity class and permission to set up the phone call.

AndroidManifest.xml

```

<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.maharashtracollege.profshahidansari"

```

Add this code

```
android:versionCode="1"  
android:versionName="1.0"  
>  
<uses-sdk android:minSdkVersion="10" />  
<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:supportRtl="true"  
    android:theme="@style/AppTheme">  
    <activity android:name=".ViewActivity"></activity>  
    <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>
```

