

## Experiment No. 8

**Aim:** Create an application to call a phone number entered by the user the Edit Text.

### Program:

- **Activity.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">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/tv"
        android:text="+91 "
        android:layout_marginTop="260dp"
        android:textSize="23sp"
        android:layout_toLeftOf="@id/et1"/>

    <EditText
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/et1"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="250dp"
        android:textSize="20sp"
        android:inputType="phone"
        android:hint="Please Enter Your Phone Number"/>

    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/bt"
        android:onClick="call"
        android:text="Call"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="300dp"/>

</RelativeLayout>
```

- **MainActivity.java :-**

```
package com.example.call;

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.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {
    EditText et1;
    Button bt;
    String num;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        et1=findViewById(R.id.et1);
        bt=findViewById(R.id.bt);
    }

    public void call(View view) {
        Intent intent = new Intent(Intent.ACTION_CALL);
        num = et1.getText().toString();
        if(num.trim().isEmpty()){
            intent.setData(Uri.parse("9028992643"));
        }
        else{
            intent.setData(Uri.parse("tel: "+num));
        }
        if
(ActivityCompat.checkSelfPermission(this,Manifest.permission.C
ALL_PHONE) != PackageManager.PERMISSION_GRANTED) {
            Toast.makeText(this, "Please grant permission to
call", Toast.LENGTH_SHORT).show();
            requestPermission();
        }
        else {
            startActivity(intent);
        }
    }
}
```

```
private void requestPermission() {
    ActivityCompat.requestPermissions(this, new
String[] {Manifest.permission.CALL_PHONE}, 1);
}

}
```

- **AndroidManifest.xml:-**

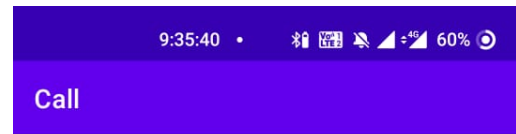
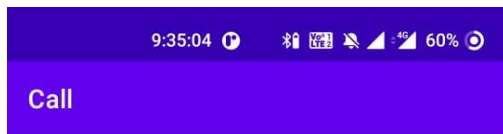
```
<?xml version="1.0" encoding="utf-8"?>
<manifest
xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:tools="http://schemas.android.com/tools">
<uses-permission android:name="android.permission.CALL_PHONE"
/>
<application
    android:allowBackup="true"

    android:dataExtractionRules="@xml/data_extraction_rules"
    android:fullBackupContent="@xml/backup_rules"
    android:icon="@android:drawable/sym_action_call"
    android:label="@string/app_name"
    android:supportsRtl="true"
    android:theme="@style/Theme.Call"
    tools:targetApi="31">
    <activity
        android:name=".MainActivity"
        android:exported="true">
        <intent-filter>
            <action
                android:name="android.intent.action.MAIN" />

            <category
                android:name="android.intent.category.LAUNCHER" />
        </intent-filter>
    </activity>
</application>

</manifest>
```

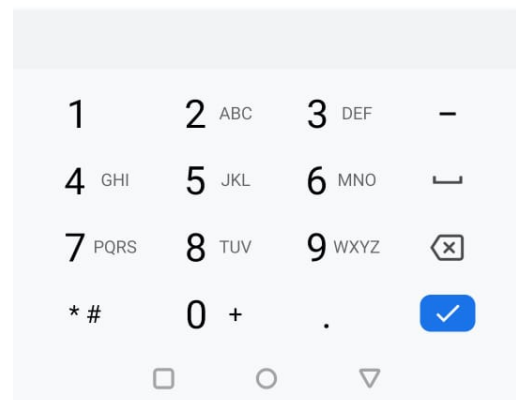
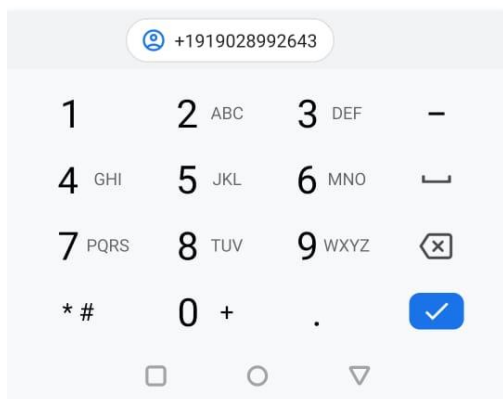
### Output:

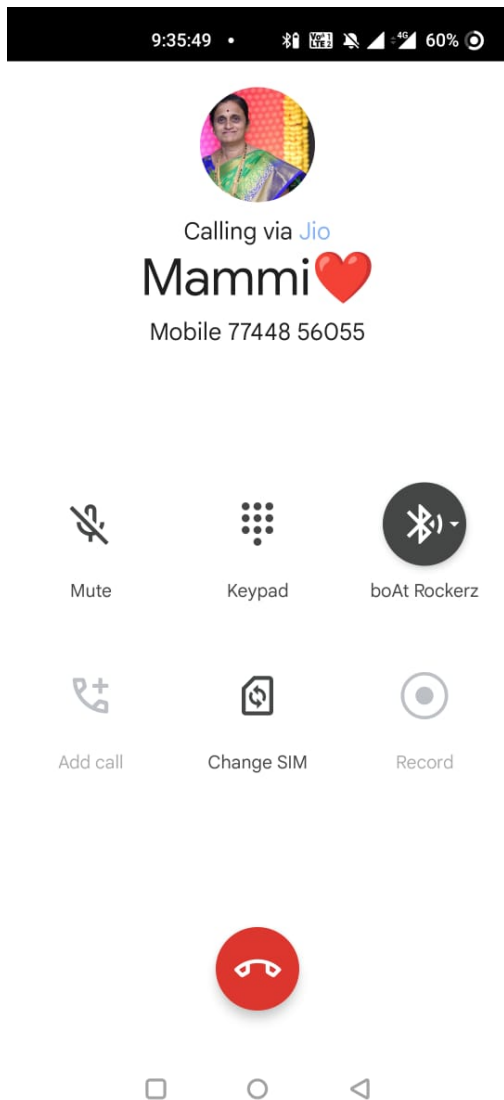


+91 Please Enter Your Phone Number



+91 7744856055





### Conclusion:

Hence, by completing this experiment I came to know that how to Create an application to call a phone number entered by the user the Edit Text.

Writeup & Oral (4)	Practical Performance (4)	Attendance (2)	Total (10)