**PR-28**

**28 Develop a program to make a call**

**XML Code**

<?xml version="1.0" encoding="utf-8"?>  
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 android:orientation="vertical"  
 android:padding="20dp"  
 android:gravity="center"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent">  
  
 <EditText  
 android:id="@+id/editTextPhone"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Enter Phone Number"  
 android:inputType="phone" />  
  
 <Button  
 android:id="@+id/callButton"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Make Call"  
 android:layout\_marginTop="20dp" />  
</LinearLayout>

**Java Code**

package com.example.pr28\_make\_call;  
  
import androidx.appcompat.app.AppCompatActivity;  
import androidx.core.app.ActivityCompat;  
import androidx.core.content.ContextCompat;  
  
import android.Manifest;  
import android.annotation.SuppressLint;  
import android.content.Intent;  
import android.content.pm.PackageManager;  
import android.net.Uri;  
import android.os.Bundle;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.Toast;  
  
public class MainActivity extends AppCompatActivity {  
  
 EditText editText;  
 Button callButton;  
 private static final int *REQUEST\_CALL\_PERMISSION* = 1;  
  
 @SuppressLint("MissingInflatedId")  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 editText = findViewById(R.id.*editTextPhone*);  
 callButton = findViewById(R.id.*callButton*);  
  
 callButton.setOnClickListener(view -> {  
 String number = editText.getText().toString();  
  
 if (number.isEmpty()) {  
 Toast.*makeText*(getApplicationContext(), "Enter Phone Number", Toast.*LENGTH\_SHORT*).show();  
 return;  
 }  
  
 if (ContextCompat.*checkSelfPermission*(MainActivity.this,  
 Manifest.permission.*CALL\_PHONE*) != PackageManager.*PERMISSION\_GRANTED*) {  
 ActivityCompat.*requestPermissions*(MainActivity.this,  
 new String[]{Manifest.permission.*CALL\_PHONE*}, *REQUEST\_CALL\_PERMISSION*);  
 } else {  
 makePhoneCall(number);  
 }  
 });  
 }  
  
 private void makePhoneCall(String number) {  
 String dial = "tel:" + number;  
 Intent intent = new Intent(Intent.*ACTION\_CALL*);  
 intent.setData(Uri.*parse*(dial));  
 startActivity(intent);  
 }  
  
 @Override  
 public void onRequestPermissionsResult(int requestCode, String[] permissions, int[] grantResults) {  
 super.onRequestPermissionsResult(requestCode, permissions, grantResults);  
 if (requestCode == *REQUEST\_CALL\_PERMISSION*) {  
 if (grantResults.length > 0 &&  
 grantResults[0] == PackageManager.*PERMISSION\_GRANTED*) {  
 makePhoneCall(editText.getText().toString());  
 } else {  
 Toast.*makeText*(this, "Permission Denied", Toast.*LENGTH\_SHORT*).show();  
 }  
 }  
 }  
}