# Main Activity

```kotlin
class MainActivity : AppCompatActivity() {
    var api_key = "adb5136f877fca4162fd4da66b3b1c16"
    private lateinit var btVar1: Button
    private lateinit var textView: TextView
    private lateinit var fusedLocationClient: FusedLocationProviderClient
    private val LOCATION_PERMISSION_REQUEST_CODE = 1
    @SuppressLint("MissingInflatedId")
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        enableEdgeToEdge()
        setContentView(R.layout.activity_main)
//        ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main)) {
//            v, insets ->
//            val systemBars =
//                insets.getInsets(WindowInsetsCompat.Type.systemBars())
//            v.setPadding(systemBars.left, systemBars.top, systemBars.right,
//                systemBars.bottom)
//            insets
//        }
        textView = findViewById(R.id.textF)
        btVar1 = findViewById(R.id.btVar1)
        fusedLocationClient =
            LocationServices.getFusedLocationProviderClient(this)
        btVar1.setOnClickListener {
            checkForPermission()
        }
    }
    private fun checkForPermission() {
        if (ActivityCompat.checkSelfPermission( context: this,
                Manifest.permission.ACCESS_FINE_LOCATION) !=
            PackageManager.PERMISSION_GRANTED &&
            ActivityCompat.checkSelfPermission( context: this,
                Manifest.permission.ACCESS_COARSE_LOCATION) !=
            PackageManager.PERMISSION_GRANTED) {
            ActivityCompat.requestPermissions( activity: this,
                arrayOf(Manifest.permission.ACCESS_FINE_LOCATION,
                    Manifest.permission.ACCESS_COARSE_LOCATION),
                LOCATION_PERMISSION_REQUEST_CODE)
        } else {
            obtainLocation()
        }
```

```kotlin
    }
    override fun onRequestPermissionsResult(requestCode: Int, permissions:
    Array<out String>, grantResults: IntArray) {
        super.onRequestPermissionsResult(requestCode, permissions,
            grantResults)
        if (requestCode == LOCATION_PERMISSION_REQUEST_CODE) {
            if ((grantResults.isNotEmpty() && grantResults[0] ==
                    PackageManager.PERMISSION_GRANTED)) {
                obtainLocation()
            } else {
                Toast.makeText( context: this,  text: "Разрешение отклонено",
                    Toast.LENGTH_SHORT).show()
            }
        }
    }
    @SuppressLint("MissingPermission")
    private fun obtainLocation() {
        fusedLocationClient.lastLocation
            .addOnSuccessListener { location: Location? ->
                if (location != null) {
                    val weatherUrl =
                        "https://api.openweathermap.org/data/2.5/weather?lat=${location.latitude}&lon=${location.longitude}&units=metric&ap
                    getTemp(weatherUrl)
                } else {
                    Toast.makeText( context: this,  text: "Не удалось получить местоположение", Toast.LENGTH_SHORT).show()
                }
            }
            .addOnFailureListener {
                Toast.makeText( context: this,  text: "Location Permission not granted",
                    Toast.LENGTH_SHORT).show()
            }
    }
    private fun getTemp(url: String) {
        val queue = Volley.newRequestQueue( context: this)
        val stringReq = StringRequest(
            Request.Method.GET, url, { response ->
                val obj = JSONObject(response)
                val main: JSONObject = obj.getJSONObject( name: "main")
                val temperature = main.getString( name: "temp")
                println(temperature)
                val city = obj.getString( name: "name")
                println(city)
```

```kotlin
                println(temperature)
                val city = obj.getString("name")
                println(city)
                textView.text = "${temperature} Градусов по цельсию в ${city}"
                System.out.println(obj.toString())
            },
            { textView.text = "ошибка" })
        queue.add(stringReq)
    }
}
```

Activity Main

```xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.c
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/main"
    android:background="@drawable/porosh"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">
    <TextView
        android:id="@+id/textF"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Текущая температура в городе "
        android:textSize="36sp"
        android:textStyle="bold"
        android:textAlignment="center"
        android:layout_marginTop="50dp"
        android:paddingHorizontal="20dp"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />
    <Button
        android:id="@+id/btVar1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginBottom="100dp"
        android:focusable="true"
        android:textStyle="bold"
        android:textSize="24sp"
        android:clickable="true"
        android:text="СТАРТ"
        android:background="@drawable/shapeforbut"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"/>

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

Android Manifest

```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.ACCESS_COARSE_LOCATION"/>
    <uses-permission android:name="android.permission.ACCESS_FINE_LOCATION"/>
    <uses-permission android:name="android.permission.INTERNET"/>
    <permission android:name="android.permission.ACCESS_COARSE_LOCATION"
        tools:ignore="ReservedSystemPermission" />
    <permission android:name="android.permission.ACCESS_FINE_LOCATION"
        tools:ignore="ReservedSystemPermission" />
    <application
        android:allowBackup="true"
        android:dataExtractionRules="@xml/data_extraction_rules"
        android:fullBackupContent="@xml/backup_rules"
        android:icon="@mipmap/ic_launcher"
        android:label="ex11"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/Theme.Ex11"
        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>
```

String

```xml
<resources>
    <string name="app_name">ex11</string>
    <string name="tempInCity">Текущая температура в городе\n</string>
    <string name="checkWeather">СТАРТ</string>
</resources>
```

Текущая
температура в
городе

**СТАРТ**

Textview