

AndroidManifest.xml

```
1  <?xml version="1.0" encoding="utf-8"?>
2  <manifest xmlns:android="http://schemas.android.com/apk/res/android"
3    xmlns:tools="http://schemas.android.com/tools">
4    <uses-permission android:name="android.permission.ACCESS_COARSE_LOCATION"/>
5    <uses-permission android:name="android.permission.ACCESS_FINE_LOCATION"/>
6    <uses-permission android:name="android.permission.INTERNET"/>
7    <application
8
9        android:allowBackup="true"
10       android:dataExtractionRules="@xml/data_extraction_rules"
11       android:fullBackupContent="@xml/backup_rules"
12       android:icon="@mipmap/ic_launcher"
13       android:label="@string/app_name"
14       android:roundIcon="@mipmap/ic_launcher_round"
15       android:supportRtl="true"
16       android:theme="@style/Theme.AppCompat"
17       tools:targetApi="31">
18       <activity
19
20           android:name=".MainActivity"
21           android:exported="true">
22           <intent-filter>
23               <action android:name="android.intent.action.MAIN" />
24
25               <category android:name="android.intent.category.LAUNCHER" />
26           </intent-filter>
27       </activity>
28   </application>
29
30 </manifest>
```

activity_main.xml

```
1 <?xml version="1.0" encoding="utf-8"?>
2 <RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
3     android:id="@+id/main"
4     android:layout_width="match_parent"
5     android:layout_height="match_parent"
6     android:padding="16dp">
7
8     <TextView
9         android:id="@+id/textView"
10        android:layout_width="wrap_content"
11        android:layout_height="wrap_content"
12        android:text="Погода"
13        android:textSize="24sp"
14        android:layout_centerHorizontal="true"
15        android:layout_marginBottom="20dp"/>
16
17    <Button
18        android:id="@+id/btVar1"
19        android:layout_width="wrap_content"
20        android:layout_height="wrap_content"
21        android:text="Получить погоду"
22        android:layout_below="@id/textView"
23        android:layout_centerHorizontal="true"/>
24 </RelativeLayout>
```

MainActivity.kt

```

1 package com.example.a11_android
2
3 > import ...
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23 <> class MainActivity : AppCompatActivity() {
24     private val apiKey = "cb458091f5f2d6ab140fec05aa998a19"
25
26     private lateinit var btVar1: Button
27     private lateinit var textView: TextView
28     private lateinit var fusedLocationClient: FusedLocationProviderClient
29
30     private val LOCATION_PERMISSION_REQUEST_CODE = 1
31
32     override fun onCreate(savedInstanceState: Bundle?) {
33         super.onCreate(savedInstanceState)
34         setContentView(R.layout.activity_main)
35
36         ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main)) { v, insets ->
37             val systemBars = insets.getInsets(WindowInsetsCompat.Type.systemBars())
38             v.setPadding(systemBars.left, systemBars.top, systemBars.right, systemBars.bottom)
39             insets
40         }
41
42         textView = findViewById(R.id.textView)
43         btVar1 = findViewById(R.id.btVar1)
44
45         fusedLocationClient = LocationServices.getFusedLocationProviderClient(activity: this)
46
47         btVar1.setOnClickListener {
48             checkForPermission()
49         }
50     }
51
52     private fun checkForPermission() {
53         if (ActivityCompat.checkSelfPermission(context: this, Manifest.permission.ACCESS_FINE_LOCATION) != PackageManager.PERMISSION_GRANTED ||
54             ActivityCompat.checkSelfPermission(context: this, Manifest.permission.ACCESS_COARSE_LOCATION) != PackageManager.PERMISSION_GRANTED) {
55             ActivityCompat.requestPermissions(activity: this,
56                 arrayOf(Manifest.permission.ACCESS_FINE_LOCATION, Manifest.permission.ACCESS_COARSE_LOCATION),
57                 LOCATION_PERMISSION_REQUEST_CODE)
58         }
59     }
60 }

```

```

52     private fun checkForPermission() {
53         PERMISSION_REQUEST_CODE)
54     }
55
56     fun missionsResult(requestCode: Int, permissions: Array<out String>, grantResults: IntArray) {
57         missionsResult(requestCode, permissions, grantResults)
58         PERMISSION_REQUEST_CODE) {
59             if (!isEmpty() && grantResults[0] == PackageManager.PERMISSION_GRANTED) {
60                 n()
61             } else {
62                 t(context: this, text: "Разрешение отклонено", Toast.LENGTH_SHORT).show()
63             }
64         }
65
66         mission")
67         n() {
68             astLocation
69             ener { location: Location? ->
70                 if (location != null) {
71                     erUrl = "https://api.openweathermap.org/data/2.5/weather?lat=${location.latitude}&lon=${location.longitude}&units=metric&appid=${apiKey}"
72                     eatherUrl)
73                 } else {
74                     eText(context: this, text: "Не удалось получить местоположение", Toast.LENGTH_SHORT).show()
75                 }
76             }
77
78             ener {
79                 t(context: this, text: "Не удалось получить местоположение", Toast.LENGTH_SHORT).show()
80             }
81         }
82
83         n()
84         String) {
85             wRequestQueue(context: this)
86         }
87     }
88 }

```

```

90     @SuppressWarnings("SetTextI18n")
91     private fun getTemp(url: String) {
92         val queue = Volley.newRequestQueue(context: this)
93
94         val stringReq = StringRequest(
95             Request.Method.GET, url, { response ->
96                 val obj = JSONObject(response)
97                 val main: JSONObject = obj.getJSONObject(name: "main")
98                 val temperature = main.getString(name: "temp")
99                 val humidity = main.getString(name: "humidity")
100                 val city = obj.getString(name: "name")
101
102                 textView.text = "${temperature} °C, влажность ${humidity}% в ${city}"
103             },
104             { textView.text = "Ошибка!" }
105         )
106         queue.add(stringReq)
107     }
108 }

```

12:00



Ошибка!

Получить погоду

