

В activity_main.xml пишем ЭТОТ код:

```
1 <?xml version="1.0" encoding="utf-8"?>
2 <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
3     xmlns:app="http://schemas.android.com/apk/res-auto"
4     xmlns:tools="http://schemas.android.com/tools"
5     android:id="@+id/main"
6     android:layout_width="match_parent"
7     android:layout_height="match_parent"
8     android:orientation="vertical"
9     android:background="@drawable/bgr"
10    tools:context=".MainActivity">
11
12
13    <View
14        android:layout_width="0dp"
15        android:layout_height="0dp"
16        android:layout_weight="1" />
17
18    <TextView
19        android:id="@+id/textView"
20        android:layout_width="wrap_content"
21        android:layout_height="wrap_content"
22        android:layout_gravity="center_horizontal"
23        android:background="@color/pink"
24        android:padding="10dp"
25        android:text="какая погода" />
26
27    <Button
28        android:id="@+id/btVar1"
29        android:layout_width="wrap_content"
30        android:layout_height="wrap_content"
31        android:layout_gravity="center"
32        android:text="узнать погоду"
33        android:background="@color/white"/>
34
35    <View
36        android:layout_width="0dp"
37        android:layout_height="0dp"
38        android:layout_weight="1" />
39
40 </LinearLayout>
```

В MainActivity.kt будет ЭТОТ код:

```
import android.Manifest
import android.annotation.SuppressLint
import android.content.pm.PackageManager
import android.location.Location
import android.os.Bundle
import android.widget.Button
import android.widget.TextView
import android.widget.Toast
import androidx.activity.enableEdgeToEdge
import androidx.appcompat.app.AppCompatActivity
import androidx.core.app.ActivityCompat
import androidx.core.view.ViewCompat
import androidx.core.view.WindowInsetsCompat
import com.android.volley.Request
import com.android.volley.toolbox.StringRequest
import com.android.volley.toolbox.Volley
import com.google.android.gms.location.FusedLocationProviderClient
import com.google.android.gms.location.LocationServices
import org.json.JSONObject

class MainActivity : AppCompatActivity() {
    private val apiKey = "32fc6ad2c543df4a49e6cb9778ad56d8"

    private lateinit var btVar1: Button
    private lateinit var textView: TextView
    private lateinit var fusedLocationClient: FusedLocationProviderClient
    private val LOCATION_PERMISSION_REQUEST_CODE = 1

    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
        }
    }
}
```

```

43     textView = findViewById(R.id.textView)
44     btVar1 = findViewById(R.id.btVar1)
45     fusedLocationClient = LocationServices.getFusedLocationProviderClient(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(
56             activity: this,
57             arrayOf(Manifest.permission.ACCESS_FINE_LOCATION, Manifest.permission.ACCESS_COARSE_LOCATION),
58             LOCATION_PERMISSION_REQUEST_CODE
59         )
60     } else {
61         obtainLocation()
62     }
63 }
64
65 override fun onRequestPermissionsResult(requestCode: Int, permissions: Array<out String>, grantResults: IntArray) {
66     super.onRequestPermissionsResult(requestCode, permissions, grantResults)
67     if (requestCode == LOCATION_PERMISSION_REQUEST_CODE) {
68         if (grantResults.isNotEmpty() && grantResults[0] == PackageManager.PERMISSION_GRANTED) {
69             obtainLocation()
70         } else {
71             Toast.makeText(context: this, text: "Разрешение отклонено", Toast.LENGTH_SHORT).show()
72         }
73     }
74 }
75
76 @SuppressWarnings("MissingPermission")
77 private fun obtainLocation() {
78     fusedLocationClient.lastLocation.addOnSuccessListener { location: Location? ->
79         if (location != null) {
80             val weatherUrl = "https://api.openweathermap.org/data/2.5/weather?lat=${location.latitude}&lon=${location.longitude}&units=metric&app=
81             getTemp(weatherUrl)
82         } else {

```

```

83         Toast.makeText(context: this, text: "Не удалось получить местоположение", Toast.LENGTH_SHORT).show()
84     }
85     }.addOnFailureListener {
86         Toast.makeText(context: this, text: "Ошибка доступа к местоположению", Toast.LENGTH_SHORT).show()
87     }
88 }
89
90 private fun getTemp(url: String) {
91     val queue = Volley.newRequestQueue(context: this)
92     val stringReq = StringRequest(
93         Request.Method.GET, url, { response ->
94             val obj = JSONObject(response)
95             val main = obj.getJSONObject(name: "main")
96
97             // Получаем температуру и влажность
98             val temperature = main.getString(name: "temp")
99             val humidity = main.getString(name: "humidity") // Получаем влажность
100             val city = obj.getString(name: "name")
101
102             // Отображаем температуру, влажность и город
103             textView.text = "температура: $temperature °C, влажность: $humidity% в $city"
104         },
105         {
106             textView.text = "Ошибка!"
107         }
108     )
109     queue.add(stringReq)
110 }
111
112 }

```

Добавила код в 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
5      <uses-permission android:name="android.permission.ACCESS_COARSE_LOCATION"/>
6      <uses-permission android:name="android.permission.ACCESS_FINE_LOCATION"/>
7      <uses-permission android:name="android.permission.INTERNET"/>
8
9      <application
10         android:allowBackup="true"
11         android:dataExtractionRules="@xml/data_extraction_rules"
12         android:fullBackupContent="@xml/backup_rules"
13         android:icon="@mipmap/ic_launcher"
14         android:label="@string/app_name"
15         android:roundIcon="@mipmap/ic_launcher_round"
16         android:supportsRtl="true"
17         android:theme="@style/Theme.AppCompat"
18         tools:targetApi="31">
19         <activity
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>
```

В build.gradle.kts

```

1  plugins {
2      alias(libs.plugins.android.application)
3      alias(libs.plugins.kotlin.android)
4  }
5
6  android {
7      namespace = "com.example.a11"
8      compileSdk = 35
9
10     defaultConfig {
11         applicationId = "com.example.a11"
12         minSdk = 24
13         targetSdk = 34
14         versionCode = 1
15         versionName = "1.0"
16
17         testInstrumentationRunner = "androidx.test.runner.AndroidJUnitRunner"
18     }
19
20     buildTypes {
21         release {
22             isMinifyEnabled = false
23             proguardFiles(
24                 getDefaultProguardFile("name: "proguard-android-optimize.txt"),
25                 "proguard-rules.pro"
26             )
27         }
28     }
29     compileOptions {
30         sourceCompatibility = JavaVersion.VERSION_1_8
31         targetCompatibility = JavaVersion.VERSION_1_8
32     }
33     kotlinOptions {
34         jvmTarget = "1.8"
35     }
36 }

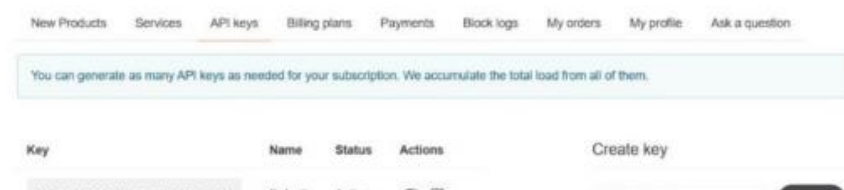
```

```

38 dependencies {
39     implementation(libs.play.services.location)
40     implementation(libs.volley)
41     implementation(libs.androidx.core.ktx)
42     implementation(libs.androidx.appcompat)
43     implementation(libs.material)
44     implementation(libs.androidx.activity)
45     implementation(libs.androidx.constraintlayout)
46     testImplementation(libs.junit)
47     androidTestImplementation(libs.androidx.junit)
48     androidTestImplementation(libs.androidx.espresso.core)
49 }

```

Зарегистрировалась на сайте <https://home.openweathermap.org/> , чтобы получить api ключ



Результат:

