

## Android Manifest:

```

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"/>

```

## Activity\_main.xml:

Текущая  
температура в  
городе

УЗНАТЬ ПОГОДУ

Текущая влажность  
в городе

Текущая  
температура в  
городе

УЗНАТЬ ПОГОДУ

```

1  <?xml version="1.0" encoding="utf-8"?>
2  <androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http
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      tools:context=".MainActivity">
9
10     <TextView
11         android:id="@+id/textF"
12         android:layout_width="wrap_content"
13         android:layout_height="wrap_content"
14         android:layout_marginTop="204dp"
15         android:paddingHorizontal="20dp"
16         android:text="Текущая температура в городе "
17         android:textAlignment="center"
18         android:textSize="36sp"
19         android:textStyle="bold"
20         app:layout_constraintEnd_toEndOf="parent"
21         app:layout_constraintHorizontal_bias="1.0"
22         app:layout_constraintStart_toStartOf="parent"
23         app:layout_constraintTop_toTopOf="parent" />
24

```

```

25 <TextView
26     android:id="@+id/textH"
27     android:layout_width="wrap_content"
28     android:layout_height="wrap_content"
29     android:layout_marginTop="72dp"
30     android:paddingHorizontal="20dp"
31     android:text="@string/humidityInCity"
32     android:textAlignment="center"
33     android:textSize="36sp"
34     android:textStyle="bold"
35     app:layout_constraintEnd_toEndOf="parent"
36     app:layout_constraintHorizontal_bias="0.0"
37     app:layout_constraintStart_toStartOf="parent"
38     app:layout_constraintTop_toTopOf="parent" />
39
40 <Button
41     android:id="@+id/btVar1"
42     android:layout_width="wrap_content"
43     android:layout_height="wrap_content"
44     android:layout_marginBottom="268dp"
45     android:background="@drawable/shapeforbut"
46     android:clickable="true"
47     android:color="#FF66FF"
48     android:focusable="true"
49     android:text="УЗНАТЬ ПОГОДУ"
50     android:textSize="24sp"
51     android:textStyle="bold"
52     app:layout_constraintBottom_toBottomOf="parent"
53     app:layout_constraintEnd_toEndOf="parent"
54     app:layout_constraintStart_toStartOf="parent" />
55
56
57 </androidx.constraintlayout.widget.ConstraintLayout>

```

## MainActivity:

```
23 </> class MainActivity : AppCompatActivity() {
24     var api_key = "945885b865edb8f3747bc749a3c36a02"
25     private lateinit var btVar1: Button
26     private lateinit var textView: TextView
27     private lateinit var textView2: TextView
28     private lateinit var fusedLocationClient: FusedLocationProviderClient
29     private val LOCATION_PERMISSION_REQUEST_CODE = 1
30
31     override fun onCreate(savedInstanceState: Bundle?) {
32         super.onCreate(savedInstanceState)
33         enableEdgeToEdge()
34         setContentView(R.layout.activity_main)
35         textView = findViewById(R.id.textF)
36         textView2 = findViewById(R.id.textH)
37         btVar1 = findViewById(R.id.btVar1)
38         fusedLocationClient =
39             LocationServices.getFusedLocationProviderClient(this)
40         btVar1.setOnClickListener {
41             checkForPermission()
42         }
43     }
44
45     private fun checkForPermission() {
46         if (ActivityCompat.checkSelfPermission(context: this,
47             Manifest.permission.ACCESS_FINE_LOCATION) !=
48             PackageManager.PERMISSION_GRANTED &&
49             ActivityCompat.checkSelfPermission(context: this,
50             Manifest.permission.ACCESS_COARSE_LOCATION) !=
51             PackageManager.PERMISSION_GRANTED) {
52             ActivityCompat.requestPermissions(activity: this,
53                 arrayOf(Manifest.permission.ACCESS_FINE_LOCATION,
54                     Manifest.permission.ACCESS_COARSE_LOCATION),
55                     LOCATION_PERMISSION_REQUEST_CODE)
56         } else {
57             obtainLocation()
58         }
59     }
60
61     override fun onRequestPermissionsResult(requestCode: Int, permissions:
62     Array<out String>, grantResults: IntArray) {
63         super.onRequestPermissionsResult(requestCode, permissions,
64             grantResults)
65         if (requestCode == LOCATION_PERMISSION_REQUEST_CODE) {
66             if ((grantResults.isNotEmpty() && grantResults[0] ==
67                 PackageManager.PERMISSION_GRANTED)) {
68                 obtainLocation()
69             } else {
```



```

70         Toast.makeText( context: this, text: "Разрешение отклонено",
71             Toast.LENGTH_SHORT).show()
72     }
73 }
74 }
75
76 private fun obtainLocation() {
77     if (ActivityCompat.checkSelfPermission(
78         context: this,
79         Manifest.permission.ACCESS_FINE_LOCATION
80     ) != PackageManager.PERMISSION_GRANTED && ActivityCompat.checkSelfPermission(
81         context: this,
82         Manifest.permission.ACCESS_COARSE_LOCATION
83     ) != PackageManager.PERMISSION_GRANTED
84     ) {
85         return
86     }
87     fusedLocationClient.lastLocation
88         .addOnSuccessListener { location: Location? ->
89         if (location != null) {
90             val weatherUrl =
91                 "https://api.openweathermap.org/data/2.5/weather?lat=${location.latitude}&lon=${location.longitude}&units=metric&appid=${api_key}"
92             getTemp(weatherUrl)
93             getHumidity(weatherUrl)
94         } else {
95             Toast.makeText( context: this, text: "Не удалось получить местоположение", Toast.LENGTH_SHORT).show()
96         }
97     }
98     .addOnFailureListener {
99         Toast.makeText( context: this, text: "Location Permission not granted",
100             Toast.LENGTH_SHORT).show()
101     }
102 }
103

```

```

104 private fun getTemp(url: String) {
105     val queue = Volley.newRequestQueue( context: this)
106     val stringReq = StringRequest(
107         Request.Method.GET, url, { response ->
108             val obj = JSONObject(response)
109             val main: JSONObject = obj.getJSONObject( name: "main")
110             val temperature = main.getString( name: "temp")
111             val city = obj.getString( name: "name")
112             textView.text = "${temperature} Градусов по цельсию в ${city}"
113         },
114         { textView.text = "Ошибка!" })
115     queue.add(stringReq)
116 }
117

```

```

118 private fun getHumidity(url: String) {
119     val queue = Volley.newRequestQueue( context: this)
120     val stringReq = StringRequest(
121         Request.Method.GET, url, { response ->
122             val obj = JSONObject(response)
123             val main: JSONObject = obj.getJSONObject( name: "main")
124             val humidity = main.getString( name: "humidity")
125             val city = obj.getString( name: "name")
126             textView2.text = "Влажность ${humidity} в ${city}"
127         },
128         { textView2.text = "Ошибка!" })
129     queue.add(stringReq)
130 }
131

```



