лб 11

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:


```xml
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
```

```xml
    <TextView
        android:id="@+id/textH"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="72dp"
        android:paddingHorizontal="20dp"
        android:text="@string/humidityInCity"
        android:textAlignment="center"
        android:textSize="36sp"
        android:textStyle="bold"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.0"
        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="268dp"
        android:background="@drawable/shapeforbut"
        android:clickable="true"
        android:color="#FF66FF"
        android:focusable="true"
        android:text="УЗНАТЬ ПОГОДУ"
        android:textSize="24sp"
        android:textStyle="bold"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent" />


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

MainActivity:

```kotlin
class MainActivity : AppCompatActivity() {
    var api_key = "945885b865edb8f3747bc749a3c36a02"
    private lateinit var btVar1: Button
    private lateinit var textView: TextView
    private lateinit var textView2: 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)
        textView = findViewById(R.id.textF)
        textView2 = findViewById(R.id.textH)
        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()
        }
    }

    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 {
```

```kotlin
                    Toast.makeText( context: this, text: "Разрешение отклонено",
                        Toast.LENGTH_SHORT).show()
                }
            }
        }

        private fun obtainLocation() {
            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
            ) {
                return
            }
            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&appid=${api_key}"
                        getTemp(weatherUrl)
                        getHumidity(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")
                    val city = obj.getString( name: "name")
                    textView.text = "${temperature} Градусов по цельсию в ${city}"
                },
                { textView.text = "Ошибка!" })
            queue.add(stringReq)
        }

        private fun getHumidity(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 humidity = main.getString( name: "humidity")
                    val city = obj.getString( name: "name")
                    textView2.text = "Влажность ${humidity} в ${city}"
                },
                { textView2.text = "Ошибка!" })
            queue.add(stringReq)
        }
    }
```

Результат

Влажность 74 в
Mountain View

13.13 Градусов по
цельсию в Mountain
View

УЗНАТЬ ПОГОДУ