ПРАКТИЧЕСКАЯ №11

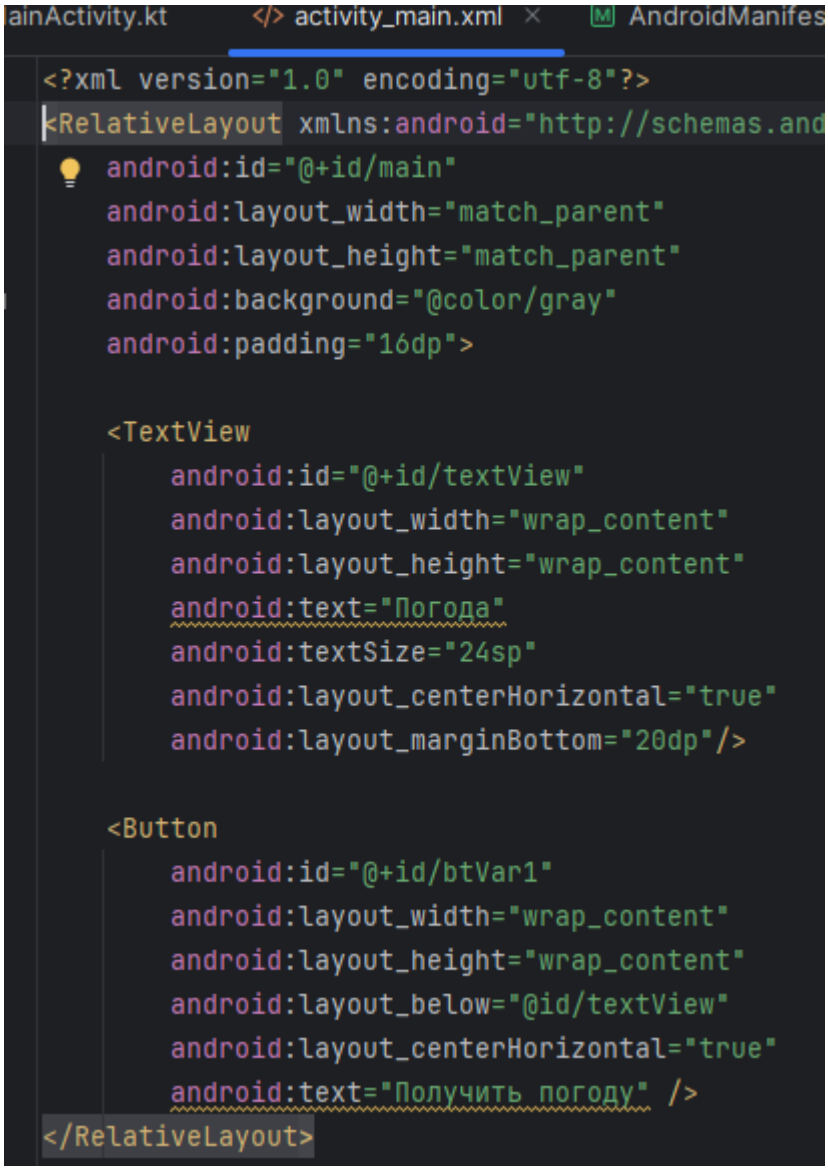
1.android manifest

```
<?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.INTERNET"/>
    <uses-permission android:name="android.permission.ACCESS_COARSE_LOCATION"/>
    <uses-permission android:name="android.permission.ACCESS_FINE_LOCATION"/>
    <application
```

2.подлкючение библиотек valley и play.services.location

```
40        implementation(libs.play.services.location)
41        implementation(libs.volley)
```

3.activity_main.xml



4.Activity_Main.kt

a.

```kotlin
class MainActivity : AppCompatActivity() {
    private val apiKey = "9c6f21a5dba5b0169b4da9e8e0fe4a41"

    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)
        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.textView)
        btVar1 = findViewById(R.id.btVar1)

        fusedLocationClient = LocationServices.getFusedLocationProviderClient( activity: 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()
        }
    }
```

b.

```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&appid=$apiKey"
                    getTemp(weatherUrl)
                } else {
                    Toast.makeText( context: this,  text: "Не удалось получить местоположение", Toast.LENGTH_SHORT).show()
                }
            }
            .addOnFailureListener {
                Toast.makeText( context: this,  text: "Не удалось получить местоположение", Toast.LENGTH_SHORT).show()
            }
    }

    @SuppressLint("SetTextI18n")
    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 humidity = main.getString( name: "humidity")
                val city = obj.getString( name: "name")

                textView.text = "$temperature °C, влажность ${humidity}% в $city"
```

c.

```
                textView.text = "$temperature °C, влажность ${humidity}% в $city"
            },
            { textView.text = "Ошибка!" }
        )
        queue.add(stringReq)
    }
}
```

5.Работа приложения