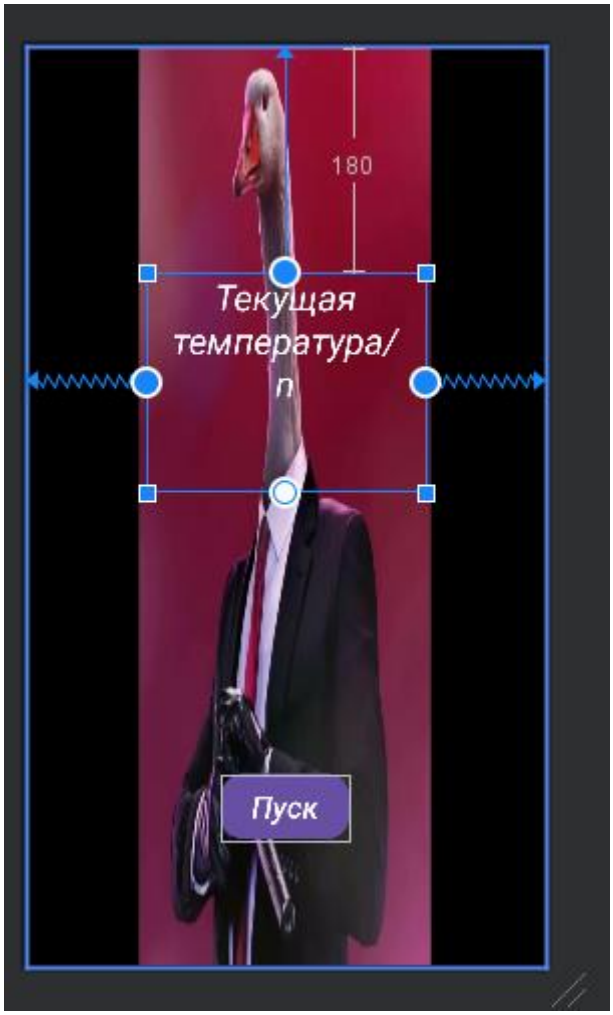
Практическая работа номер 11

1.Создаем проект

2.Оформляем mainactivity




```
<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@drawable/goose"
    tools:context=".MainActivity">

    <TextView
        android:id="@+id/textF"
        android:layout_width="221dp"
        android:layout_height="174dp"
        android:layout_marginTop="180dp"
        android:paddingHorizontal="20dp"
        android:text="@string/temp"
        android:textColor="@color/white"
        android:textAlignment="center"
        android:textSize="29sp"
        android:textStyle="italic"
        app:layout_constraintEnd_toEndOf="parent"
        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="100dp"
        android:background="@drawable/shapeforbut"
        android:clickable="true"
        android:focusable="true"
        android:text="Пуск"
        android:textSize="24sp"
        android:textStyle="italic"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent" />
```

3.Даем разрешения

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

4.Добавляем библиотеки Implementation

```
implementation(libs.play.services.location)
implementation(libs.volley)
implementation(libs.androidx.core.ktx)
implementation(libs.androidx.appcompat)
implementation(libs.material)
implementation(libs.androidx.activity)
implementation(libs.androidx.constraintlayout)
testImplementation(libs.junit)
androidTestImplementation(libs.androidx.junit)
androidTestImplementation(libs.androidx.espresso.core)
```

5.Стринги

```
<string name="app_name">nigga</string>
<string name="temp">Текущая температура/n</string>
<string name="checkWeather">Пуск</string>
```

6.Код MainActivity

```
class MainActivity : AppCompatActivity() {
    var api_key = "adb5136f877fca4162fd4da66b3b1c16"
    private lateinit var btVar1: Button
    private lateinit var textView: TextView
    private lateinit var fusedLocationClient: FusedLocationProviderClient
    private val LOCATION_PERMISSION_REQUEST_CODE = 1
    @SuppressLint("MissingInflatedId")
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        enableEdgeToEdge()
        setContentView(R.layout.activity_main)


        textView = findViewById(R.id.textF)
        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:
```

```
override fun onRequestPermissionsResult(requestCode: Int, permissions:
        grantResults)
    if (requestCode == LOCATION_PERMISSION_REQUEST_CODE) {
        if ((grantResults.isNotEmpty() && grantResults[0] ==
                PackageManager.PERMISSION_GRANTED)) {

            obtainLocation()
        } else {
            Toast.makeText( context: this, text: "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=${api_key}"
                getTemp(weatherUrl)
            } else {

                Toast.makeText( context: this, text: "Неизвестное 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")
```



```
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")
            println(temperature)
            val city = obj.getString( name: "name")
            println(city)
            textView.text = "${temperature} Грс по цельсию в ${city}"
            System.out.println(obj.toString())
        },
        { textView.text = "Ошибка!" })
    queue.add(stringReq)
```

7.Работает


09:36
Текущая температура/ n
Пуск
09:35
-6.67 Грс по цельсию в Blagoveshchensk
Пуск