9

Внешний вид калькулятора

```
android:layout width="wrap content"
        android:layout_height="90dp"
        android:text="Del"
        android:textColor="@color/red" />
    <androidx.appcompat.widget.AppCompatButton</pre>
        android:id="@+id/button bracket left"
        style="@style/Button_Style"
        android:layout width="wrap content"
        android:layout_height="90dp"
        android:text="("
        android:textColor="@color/orange" />
    <androidx.appcompat.widget.AppCompatButton</pre>
        android:id="@+id/button bracket right"
        style="@style/Button Style"
        android:layout_width="wrap_content"
        android:layout_height="90dp"
        android:text=")"
        android:textColor="@color/orange" />
    <androidx.appcompat.widget.AppCompatButton</pre>
        android:id="@+id/button_division"
        style="@style/Button Style"
        android:layout_width="wrap_content"
        android:layout height="90dp"
        android:text="+"
        android:textColor="@color/orange" />
</TableRow>
<TableRow>
    <androidx.appcompat.widget.AppCompatButton</pre>
        android:id="@+id/button 7"
        style="@style/Button Style"
        android:layout width="wrap content"
        android:layout_height="90dp"
        android:text="7" />
    <androidx.appcompat.widget.AppCompatButton</pre>
        android:id="@+id/button 8"
        stvle="@stvle/Button Stvle"
```

```
android:layout height="90dp"
      android:text="8" />
  <androidx.appcompat.widget.AppCompatButton</pre>
      android:id="@+id/button 9"
      style="@style/Button Style"
      android:layout width="wrap content"
      android:layout height="90dp"
      android:text="9" />
  <androidx.appcompat.widget.AppCompatButton</pre>
      android:id="@+id/button multiply"
      style="@style/Button Style"
      android:layout width="wrap content"
      android:layout height="90dp"
      android:text="x"
      android:textColor="@color/orange" />
TableRow>
ableRow>
  <androidx.appcompat.widget.AppCompatButton</pre>
      android:id="@+id/button 4"
      style="@style/Button Style"
      android:layout width="wrap content"
      android:layout height="90dp"
      android:text="4" />
  <androidx.appcompat.widget.AppCompatButton</pre>
      android:id="@+id/button 5"
      style="@style/Button Style"
      android:layout width="wrap content"
      android:layout_height="90dp"
      android:text="5" />
  <androidx.appcompat.widget.AppCompatButton</pre>
      android:id="@+id/button 6"
      style="@style/Button Style"
      android:layout_width="wrap_content"
      android:layout_height="90dp"
      android:text="6" />
  <androidx.appcompat.widget.AppCompatButton</pre>
      android:id="@+id/button subtraction"
      stvle="@stvle/Button Stvle"
```

```
android:layout width="wrap content
        android:layout_height="90dp"
        android:text="-
        android:textColor="@color/orange" />
</TableRow>
<TableRow>
    <androidx.appcompat.widget.AppCompatButton</pre>
        android:id="@+id/button 1"
        style="@style/Button Style"
        android:layout width="wrap content"
        android:layout_height="90dp"
        android:text="1" />
    <androidx.appcompat.widget.AppCompatButton</pre>
        android:id="@+id/button 2"
        style="@style/Button Style"
        android:layout width="wrap content"
        android:layout_height="90dp"
        android:text="2" />
    <androidx.appcompat.widget.AppCompatButton</pre>
        android:id="@+id/button 3"
        style="@style/Button Style"
        android:layout_width="wrap content"
        android:layout height="90dp"
        android:text="3" />
    <androidx.appcompat.widget.AppCompatButton</pre>
        android:id="@+id/button addition"
        style="@style/Button Style"
        android:layout width="wrap content"
        android:layout height="90dp"
        android:text="+"
        android:textColor="@color/orange" />
</TableRow>
<TableRow>
    <androidx.appcompat.widget.AppCompatButton</pre>
        android:id="@+id/button percent"
        style="@style/Button_Style"
        android:layout width="wrap content"
        android layout height="90dn"
```

```
<androidx.appcompat.widget.AppCompatButton</pre>
                android:id="@+id/button addition"
                style="@style/Button Style"
                android:layout width="wrap content"
                android:layout height="90dp"
                android:text="+"
                android:textColor="@color/orange" />
        </TableRow>
        <TableRow>
            <androidx.appcompat.widget.AppCompatButton</pre>
                android:id="@+id/button_percent"
                style="@style/Button Style"
                android:layout_width="wrap_content"
                android:layout_height="90dp"
                android:text="%" />
            <androidx.appcompat.widget.AppCompatButton</pre>
                android:id="@+id/button 0"
                style="@style/Button_Style"
                android:layout width="wrap content"
                android:layout height="90dp"
                android:text="0" />
            <androidx.appcompat.widget.AppCompatButton</pre>
                android:id="@+id/button dot"
                style="@style/Button Style"
                android:layout width="wrap content"
                android:layout height="90dp"
                android:text="."/>
            <androidx.appcompat.widget.AppCompatButton</pre>
                android:id="@+id/button_equals"
                style="@style/Button Style"
                android:layout_width="wrap_content"
                android:layout height="90dp"
                android:background="@color/orange"
                android:text="="
                android:textColor="@color/white" />
        </TableRow>
   </TableLayout>
</LinearLayout>
```

```
(inearLayout
   xmlns:android="http://schemas.android.com/apk/res/android"
   xmlns:tools="http://schemas.android.com/tools"
   android:id="@+id/main"
   android:layout_width="match_parent"
   android:layout_height="match_parent"
   android:background="@color/black"
   android:orientation="vertical"
   tools:context="MainActivity"
   <LinearLayout</pre>
       android:layout width="match parent"
       android:layout_height="0dp"
       android:layout_weight="1"
       android:background="@color/black"
       android:gravity="bottom"
       android:orientation="vertical"
       android:padding="30dp">
       <TextView
           android:id="@+id/input"
           android:layout width="match parent"
           android:layout_height="wrap_content"
           android:gravity="end"
           android:textColor="@color/white"
           android:textSize="30sp"
           tools:text="5+10-3" />
       <TextView
           android:id="@+id/output"
           android:layout width="match parent"
           android:layout height="wrap content"
           android:gravity="end"
           android:textColor="@color/neon green"
           android:textSize="50sp"
           tools:text="12" />
   </LinearLayout>
   <TableLayout
       android:layout_width="match_parent"
       android:layout height="wrap content"
       android:stretchColumns="*">
       <TableRow>
           <androidx.appcompat.widget.AppCompatButton</pre>
               android:id="@+id/button clear"
```

Цвета

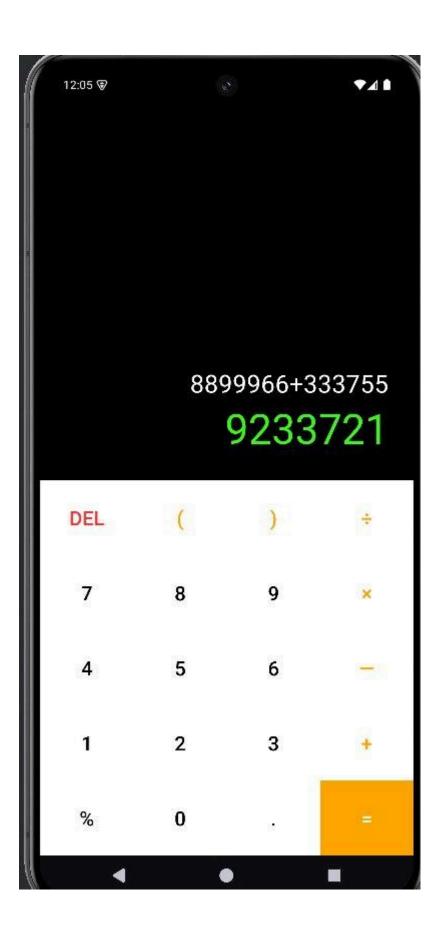
```
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <style name="Button_Style" parent="Widget.AppCompat.Button.Colored">
       <item name="android:background">@color/white</item>
       <item name="android:textSize">24sp</item>
       <item name="android:textColor">@color/black</item>
       <item name="android:gravity">center</item>
   </style>
   <color name="purple 200">#FFBB86FC</color>
   <color name="purple_500">#FF6200EE</color>
   <color name="purple_700">#FF3700B3</color>
   <color name="teal_200">#FF03DAC5</color>
   <color name="teal_700">#FF018786</color>
   <color name="black">#FF000000</color>
   <color name="white">#FFFFFFF</color>
   <color name="red">#FF3131</color>
   <color name="pink">#FFC@CB</color>
   <color name="orange">#FFA500</color>
   <color name="neon_green">#39FF14</color>
</resources>
```

Работа калькулятора и код

```
binding.button3.setOnClickListener {
    addToInputText( value: "3")
binding.button4.setOnClickListener {
    addToInputText( value: "4")
binding.button5.setOnClickListener {
    addToInputText( value: "5")
binding.button6.setOnClickListener {
    addToInputText( Value: "6")
binding.button7.setOnClickListener {
    addToInputText( value: "7")
binding.button8.setOnClickListener {
    addToInputText( value: "8")
binding.button9.setOnClickListener {
    addToInputText( value: "9")
binding.buttonDot.setOnClickListener {
    addToInputText( value: ".")
binding.buttonDivision.setOnClickListener {
    addToInputText( value: "/")
binding.buttonMultiply.setOnClickListener {
    addToInputText( value: "*")
binding.buttonSubtraction.setOnClickListener {
    addToInputText( Value: "-")
binding.buttonAddition.setOnClickListener {
    addToInputText( value: "+")
binding.buttonEquals.setOnClickListener {
    showResult()
binding.buttonPercent.setOnClickListener {
    addToInputText( value: "%")
}
```

```
class MainActivity : AppCompatActivity() {
   private fun addToInputText(value:String) {
       binding.input.append(value)
   private fun getInputExpression(): String {
       return binding.input.text.toString()
   override fun onCreate(savedInstanceState: Bundle?) {
       super.onCreate(savedInstanceState)
       enableEdgeToEdge()
       binding=ActivityMainBinding.inflate(layoutInflater)
       setContentView(binding.root)
       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)
       binding.buttonClear.setOnClickListener{
            binding.input.text = " "
           binding.output.text = " "
       binding.buttonBracketLeft.setOnClickListener {
            addToInputText( Value: "(")
       binding.buttonBracketRight.setOnClickListener {
           addToInputText( value: ")")
       binding.button0.setOnClickListener {
           addToInputText( Value: "0")
       binding.button1.setOnClickListener {
            addToInputText( Value: "1")
       binding.button2.setOnClickListener {
           addToInputText( Value: "2")
       binding.button3.setOnClickListener {
            addToInputText( Value: "3")
       binding.button4.setOnClickListener {
           addToInputText( Value: "4")
       binding.button5.setOnClickListener {
```

```
binding.button9.setOnClickListener {
        addToInputText( Value: "9")
    binding.buttonDot.setOnClickListener {
        addToInputText( Value: ".")
    binding.buttonDivision.setOnClickListener {
        addToInputText( Value: "/")
    binding.buttonMultiply.setOnClickListener {
        addToInputText( Value: "*")
    binding.buttonSubtraction.setOnClickListener {
        addToInputText( Value: "-")
    binding.buttonAddition.setOnClickListener {
        addToInputText( Value: "+")
    binding.buttonEquals.setOnClickListener {
        showResult()
    binding.buttonPercent.setOnClickListener {
        addToInputText( Value: "%")
private fun showResult() {
        val expression = getInputExpression().replace( oldValue: "%", newValue: "/100")
        val result = ExpressionBuilder(expression).build().evaluate()
        binding.output.text = DecimalFormat( pattern: "0.######").format(result).toString()
        binding.output.setTextColor(ContextCompat.getColor( context: this, R.color.neon green))
    } catch (e: Exception) {
        binding.output.text = "Ошибка"
        binding.output.setTextColor(ContextCompat.getColor( context: this,R.color.red))
```



Поля для подтверждения регистрации и код

```
<EditText
    android:id="@+id/etSEmailAddress"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginLeft="15dp"
    android:layout_marginTop="30dp"
    android:layout_marginRight="15dp"
    android:autofillHints="emailAddress"
    android:ems="10"
    android:hint="Почта"
    android:inputType="textEmailAddress"
    android:minHeight="48dp"
    android:textColorHint="#757575" />
<EditText
    android:id="@+id/etSPassword"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginLeft="15dp"
    android:layout_marginTop="15dp"
    android:layout_marginRight="15dp"
    android:autofillHints="password"
    android:ems="10"
    android:hint="Пароль"
    android:inputType="textPassword"
    android:minHeight="48dp"
    android:textColorHint="#757575" />
```

```
<EditText
    android:id="@+id/etSConfPassword"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginLeft="15dp"
    android:layout_marginTop="15dp"
    android:layout_marginRight="15dp"
    android:autofillHints="password"
    android:ems="10"
    android:hint="Подтвердите пароль"
    android:inputType="textPassword"
    android:minHeight="48dp"
    android:textColorHint="#757575"
   tools:ignore="TextContrastCheck" />
<androidx.appcompat.widget.AppCompatButton</pre>
    android:id="@+id/btnSSigned"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_margin="15dp"
    android:textSize="16sp"
    android:background="@color/white"
   android:text="@string/registration" />
<TextView
   android:id="@+id/tvRedirectRegistration"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:gravity="center_horizontal"
    android:layout_margin="10dp"
    android:text="@string/accountexist"
    android:textColor="#18206F"
    android:textSize="16sn" />
```

Почта	
Пополи	
Пароль	>
Подтве	ердите пароль
	РЕГИСТРАЦИЯ
	Уже есть аккаунт?

Попытка входа

```
class LoginActivity : AppCompatActivity() {
   lateinit var auth: FirebaseAuth
       setContentView(R.layout.activity_login)
       btnLogin = findViewById(R.id.btnLogin)
       etEmail = findViewById(R.id.etEmailAddress)
       <u>etPass</u> = findViewById(R.id.<u>etPαssword</u>)
       auth = FirebaseAuth.getInstance()
           val intent = Intent( packageContext: this, RegistrationActivity::class.jανα)
           startActivity(intent)
       val email = etEmail.text.toString()
       auth.signInWithEmailAndPassword(email,pass).addOnCompleteListener(this){
               Toast.makeText( context: this, text: "Bxog ycneweh!", Toast.LENGTH_SHORT).show()
               val newIntent = Intent( packageContext: this, HomeActivity::class.jανα)
               startActivity(newIntent)
            } else
                 Toast.makeText( context: this, text: "Ошибка входа ", Toast.LENGTH_SHORT).show()
       }
    ndroid:layout_width="match_paren
                                                           2 ⊚ % Odp % % I
```

коничива

Нет аккаунта???

```
android:id="@+id/etEmailAddress"
   android:layout_width="match_parent"
   android:layout_height="wrap_content"
   android:layout_marginLeft="15dp"
   android:layout_marginTop="30dp"
   android:layout_marginRight="15dp"
   android:autofillHints="emailAddress"
   android:ems="10"
   android:hint="Почта"
   android:inputType="textEmailAddress"
   android:minHeight="48dp"
   android:textColorHint="#757575" />
   android:id="@+id/etPassword"
   android:layout_width="match_parent"
   android:layout_height="wrap_content"
   android:layout_marginLeft="15dp"
   android:layout_marginTop="15dp"
   android:layout_marginRight="15dp"
   android:autofillHints="password"
   android:ems="10"
   android:inputType="textPassword"
   android:minHeight="48dp"
   android:textColorHint="#757575" />
<androidx.appcompat.widget.AppCompatButton</pre>
   android:layout_width="match_parent"
   android:layout_height="wrap_content"
   android:layout_margin="15dp"
   android:textSize="16sp"
   android:background="@color/white"
```

```
<TextView
    android:id="@+id/tvRedirectLogin"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:focusable="true"
    android:gravity="center_horizontal"
    android:layout_margin="10dp"
    android:clickable="true"
    android:text="Het аккаунта?"
    android:textColor="#18206F"
    android:textSize="16sp" />
```

```
class RegistrationActivity : AppCompatActivity() {
    lateinit var etEmail: EditText
    lateinit var etConfPass: EditText
    private lateinit var etPass: EditText
    private lateinit var btnSignUp: Button
    lateinit var tvRedirect: TextView

    private lateinit var auth: FirebaseAuth
```

```
btnSignUp = findViewById(R.id.btnSSigned)
tvRedirect = findViewById(R.id.tvRedirectRegistration)
<u>auth</u> = Firebase.αυτh
    singUpUser()
    startActivity(<u>intent</u>)
val email = etEmail.text.toString()
val confPass = etConfPass.text.toString()
if (email.isBlank() || pass.isBlank() || confPass.isBlank()) {
    Toast.makeText(
         context: this, text: "Почта и пароль не могут быть пустыми",
    ).show()
if (pass != confPass) {
    Toast.makeText( context: this, text: "Пароль и пароль подтверждения не совпадают", Toast.LENGTH_SHORT)
        .show()
auth.createUserWithEmailAndPassword(email, pass).addOnCompleteListener(this) {
        Toast.makeText( context: this, text: "Регистрация успешна", Toast.LENGTH_SHORT).show()
        startActivity(<u>intent</u>)
        Toast.makeText( context: this, text: "Ошибка регистрации", Toast.LENGTH_SHORT).show()
```

Анимация и картинка

```
<?xml version="1.0" encoding="utf-8"?>
<set xmlns:android="http://schemas.android.com/apk/res/android"</pre>
   android:interpolator="@android:anim/linear_interpolator">
   <scale android:fromXScale="1.0" android:toXScale="0.5"</pre>
        android:fromYScale="1.0" android:toYScale="0.5"
       android:pivotX="50%" android:pivotY="50%" android:duration="4500"
        android:repeatCount="infinite" android:repeatMode="reverse" />
   <rotate
        android:fromDegrees="0.0"
       android:toDegrees="240.0"
        android:pivotX="50%"
        android:pivotY="50%" />
   <alpha android:fromAlpha="1.0" android:toAlpha="0.0"
       android:duration="250"
       android:repeatCount="infinite"
        android:repeatMode="reverse" />
   <translate android:fromXDelta="0.0"</pre>
       android:toXDelta="100.0"
        android:fromYDelta="20.0"
        android:toYDelta="120.0"
        android:duration="250"
        android:repeatMode="reverse"
        android:repeatCount="infinite" />
```

```
class MainActivity : AppCompatActivity() {
    @SuppressLint("MissingInflatedId")
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        enableEdgeToEdge()
        setContentView(R.layout.activity_main)
        val imgsaske : ImageView = findViewById(R.id.animeSaske)
        val anim : Animation = AnimationUtils.loadAnimation(context: this,R.anim.animation_new)
        imgsaske.startAnimation(anim)
    }
}
```



14 Список с добавлением

```
<?xml version="1.0" encoding="utf-8"?>

①1 〈A1 〈A1 ^
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:id="@+id/main">
    <androidx.recyclerview.widget.RecyclerView</pre>
        android:id="@+id/recyclerView"
        android:layout_width="match_parent"
        android:layout_height="match_parent"/>
    <com.google.android.material.floatingactionbutton.FloatingActionButton</pre>
        android:id="@+id/fab"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentEnd="true"
        android:layout_alignParentBottom="true"
        android:layout_margin="16dp"
        android:src="@drawable/baseline_add_24"/>
</RelativeLayout>
```

```
class MainActivity : AppCompatActivity() {
    private lateinit var recyclerView: RecyclerView
    private lateinit var fab: FloatingActionButton
    private val items: MutableList<RouteListingPreference.Item> = mutableListOf()
    private lateinit var adapter: ItemAdapter
    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
        recyclerView = findViewById(R.id.recyclerView)
        fab = findViewById(R.id.fab)
        adapter = ItemAdapter(items)
        recyclerView.layoutManager = LinearLayoutManager( context: this)
        <u>recyclerView.adapter</u> = <u>adapter</u>
        \underline{adapter} = ItemAdapter(items)
        recyclerView.layoutManager = LinearLayoutManager( context: this)
        <u>recyclerView.αdαpter</u> = adapter
        fab.setOnClickListener {
            showInputDialog()
    private fun showInputDialog() {
        val builder = AlertDialog.Builder( context: this)
        builder.setTitle("Добавить элемент")
        val input = EditText( context: this)
        builder.setView(input)
        builder.setPositiveButton( text: "Добавить") { dialog, _ ->
            val text = input.<u>text</u>.toString()
            if (text.isNotEmpty()) {
                items.add(Item(text))
                adapter.notifyItemInserted( position: items.size - 1)
```

```
dialog.dismiss()
        builder.setNegativeButton( text: "Отмена") { dialog, _ -> dialog.
        builder.show()
tem 0
tem 1
tem 2
tem 3
tem 4
tem 5
tem 6
tem 7
tem 8
tem 9
```

```
<androidx.constraintlayout.widget.ConstraintLayout
                                                                     42 41 ^
   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:layout_width="match_parent"
   android:layout_height="wrap_content">
   <TextView
       android:id="@+id/txt1"
       android:layout_width="0dp"
       android:layout_height="64dp"
       android:layout_marginTop="16dp"
       android:text="test"
       android:textSize="40sp"
       app:layout_constraintEnd_toEndOf="parent"
       app:layout_constraintStart_toStartOf="parent"
       app:layout_constraintTop_toTopOf="parent" />
:/androidx.constraintlayout.widget.ConstraintLayout>
```

```
test
```

```
data class Item(

● val text: String
)
```

```
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)
              val systemBars =
                  systemBars.bottom)
        textView = findViewById(R.id.textF)
        btVar1 = findViewById(R.id.btVar1)
        fusedLocationClient =
            LocationServices.getFusedLocationProviderClient( activity: this)
        btVar1.setOnClickListener {
            checkForPermission()
    //Метод для проверки наличия разрешений
   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)
            obtainLocation()
```

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

Андроид манифест

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    xmlns:tools="http://schemas.android.com/tools">
    <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"/>
    <permission android:name="android.permission.ACCESS_COARSE_LOCATION"</pre>
        tools:ignore="ReservedSystemPermission" />
    <permission android:name="android.permission.ACCESS_FINE_LOCATION"</pre>
        tools:ignore="ReservedSystemPermission" />
    <application
        android:allowBackup="true"
        android:dataExtractionRules="@xml/data_extraction_rules"
        android:fullBackupContent="@xml/backup_rules"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/Theme.Ex11"
        tools:targetApi="31">
        <activity
            android:name="MainActivity"
            android:exported="true">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />
                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
    </application>
</manifest>
```

Фейс программы

```
<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="</pre>
    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"
    tools:context="MainActivity">
    <TextView
        android:id="@+id/textF"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/tempInCity"
        android:textSize="36sp"
        android:textStyle="bold"
        android:textAlignment="center"
        android:layout_marginTop="50dp"
        android:paddingHorizontal="20dp"
        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="32dp"
        android:background="@drawable/shapeforbut"
        android:clickable="true"
        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>
```





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